

#### **DEPARTMENT OF THE ARMY**

US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT BELVOIR
9820 FLAGLER ROAD, SUITE 213
FORT BELVOIR, VIRGINIA 22060-5928

REPLY TO ATTENTION OF

August 15, 2016

Directorate of Public Works

Ms. Susan Mackert Virginia Department of Environmental Quality (VADEQ) Northern Regional Office 13901 Crown Court Woodbridge, Virginia 22193

Dear Ms. Mackert:

Enclosed please find Fort Belvoir's comments to responses made by VADEQ to VADEQ's Draft Virginia Pollutant Discharge Elimination System Industrial Stormwater Individual Major Permit (VA0092771) and the associated Permit Fact Sheet comments that were submitted by Fort Belvoir on October 29, 2015. Enclosed are revisions to Tables, requested information and requests for clarification or consideration. Additional information is also submitted on Industrial Stormwater Outfall 018, which was closed on July 14, 2016.

Fort Belvoir requests a written response to the installation's comments and a follow-up meeting to discuss said comments and concerns with VADEQ's permit writer prior to moving forward with the public notice process. Please let us know a time and date that would be convenient for VADEQ staff.

Point of contact is Bill Sanders, Director of Public Works, at 703-806-3017.

Sincerely,

Colonel, U.S. Army

Commanding

Enclosure

**Table 3510-2F-IV: Narrative Description of Pollutant Sources** 

Table 3510-2F-IVA: Representative Outfall Drainage Area Table

Outfall ID	Structure ID	Drainage Area (Acres)	Impervious Surface (Acres)	Percent Impervious Surface	Percent MS4	Percent Industrial
001	4944	14.4	0.98	6 %	0	100
002	4951	180.0	48.4	26 %	0	100
003	4991	132.0	31.0	23 %	0	100
004	4437	34.0	0	0 %	0	100
005	2758	1.0	0.41	41 %	0	100
006	2944	1.10	0.61	55 %	0	100
007	2822	10.9	0	0 %	90	10
008	2523	70.2	15.2	21 %	0	100
009	5724	103.0	7.0	6 %	75	25
010	3244	3.90	2.18	56 %	40	60
011	3204	3.10	2.84	91 %	6	94
012	5511	5.35	2.59	48 %	49	51
013	3761	0.95	0.70	73 %	0	100
014	3755	1.89	1.50	79 %	5	95
015	2179	54.7	28.5	52 %	20	80
016	4471	2.25	0.74	32 %	0	100
017	7243	56.1	10.4	19 %	0	100
018	NA	NA	NA	NA	NA	NA
019	2196	7.89	3.46	44 %	27	73
020	2192	8.27	2.65	32 %	0	100
021	2189	4.13	0.97	23 %	59	41
022	2128	3.58	1.43	39 %	30	70
023	2775	1.20	0.51	42 %	0	100
024	5243	11.1	7.86	70 %	70	30
025	3339	4.71	4.1	87 %	3	97
026	0376	14.8	0.83	6 %	6	94
027	7245	2.10	0	0 %	0	100
028	4334	15.0	1.3	8.6 %	10	90
029	6004	2.60	0	0 %	40	60
030	2725	4.20	0	0 %	15	85
031	6438	2.0	0	0 %	0	100
032	6207	9.38	4.91	52 %	0	100
033	TBD	4.20*	4.20*	100 %	0	100
Represe Drain	entative nage	770	185.3			

<sup>\*</sup> Notes Approximate Drainage based on current designs for facility

Table 3510-2F-IV: Narrative Description of Pollutant Sources

Table 3510-2F-IVA: Representative Outfall Drainage Area Table

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001	4944	14.4	0.98	6 %	0	100
002	4951	180.0	48.4	26 %	0	100
003	4991	132.0	31.0	23 %	0	100
004	4437	34.0	0	0 %	0	100
005	2758	1.0	0.41	41 %	0	100
006	2944	1.10	0.61	55 %	0	100
007	2822	10.9	0	0 %	90	10
800	2523	70.2	15.2	21 %	0	100
009	5724	103.0	7.0	6 %	75	25
010	3244	3.90	2.18	56 %	40	60
011	3204	3.10	2.84	91 %	6	94
012	5511	5.35	2.59	48 %	49	51
013	3761	0.95	0.70	73 %	0	100
014	3755	1.89	1.50	79 %	5	95
015	2179	54.7	28.5	52 %	20	80
016	4471	2.25	0.74	32 %	0	100
017	7243	56.1	10.4	19 %	0	100
018	NA	NA	NA	NA	NA	NA
019	2196	7.89	3.46	44 %	27	73
020	2192	8.27	2.65	32 %	0	100
021	2189	4.13	0.97	23 %	59	41
022	2128	3.58	1.43	39 %	30	70
023	2775	1.20	0.51	42 %	0	100
024	5243	11.1	7.86	70 %	70	30
025	3339	4.71	4.1	87 %	3	97
026	376	14.8	0.83	6 %	6	94
027	7245	2.10	0	0 %	0	100
028	4334	15.0	1.3	8.6 %	10	90
029	6004	2.60	0	0 %	40	60
030	2725	4.20	0	0 %	15	85
031	6438	2.0	0	0 %	0	100
032	6207	9.38	4.91	52 %	0	100
033	TBD	4.20*	4.20*	100 %	0	100
To Represe Drair	entative nage	770	185.3			

<sup>\*</sup> Notes Approximate Drainage based on current designs for facility

Comment [CDG1]: Table has been updated to include all Permitted Outfalls and drainage details

Comment [CDG2]: As per Memo dated 28 December 2015 and email from Susan Mackert (April 15, 2016); This has been changed to reflect the outfall location discharging from Fort Belvoir as opposed to entering Fort Belvoir

Comment [CDG3]: Outfall 018 Has been filled as part of a stream restoration project, sampling will continue at Outfall 019 just downstream (See Appendix 6)

**Comment [CDG4]:** Updated to include Outfall 018 drainage.

Table 3510-2F-I: Representative Outfall Locations

A. Representative Outfall ID	B. Latitude	C. Longitude	D. Receiving Water
001	38° 43' 15"	-77° 11' 20"	Accotink Creek
002	38° 43' 6"	-77° 10' 41"	Unnamed Tributary to Accotink Creek
003	38° 42' 37"	-77° 10′ 15"	Unnamed Tributary to Accotink Creek
004	38° 42' 26"	-77° 10' 21"	Unnamed Tributary to Accotink Creek
005	38° 42' 6"	-77° 9' 15"	Unnamed Tributary to Accotink Bay
006	38° 41' 22"	-77° 8' 43"	Unnamed Tributary to Gunston Cove
007	38° 41′ 3"	-77° 8' 28"	Unnamed Tributary to Gunston Cove
008*	38° 44' 20"	-77° 9' 15"	Unnamed Tributary to Dogue Creek
009	38° 43' 55"	-77° 10' 4"	Unnamed Tributary to Accotink Creek
010	38° 42' 39"	-77° 9' 0"	Unnamed Tributary to Accotink Creek
011	38° 42' 36"	-77° 9' 13"	Unnamed Tributary to Accotink Creek
012	38° 42' 57"	-77° 10' 4"	Unnamed Tributary to Accotink Creek
013	38° 43' 13"	-77° 9' 7"	Unnamed Tributary to Accotink Creek
014	38° 43' 16"	-77° 9' 11"	Unnamed Tributary to Accotink Creek
015	38° 41' 36"	-77° 8' 49"	Unnamed Tributary to Accotink Bay
016	38° 42' 25"	-77° 7' 49"	Dogue Creek
017	38° 41' 56"	-77° 8' 54"	Unnamed Tributary to Accotink Bay
018	38° 40' 57"	-77° 8′ 10"	Unnamed Tributary to Gunston Cove
019	38° 40' 54"	-77° 8' 8"	Unnamed Tributary to Gunston Cove
020	38° 40' 44"	-77° 8' 11"	Unnamed Tributary to Gunston Cove
021	38° 40' 39"	-77° 8' 12"	Unnamed Tributary to Gunston Cove
022	38° 40' 28"	-77° 8' 26"	Gunston Cove
023	38° 42' 8"	-77° 9' 10"	Unnamed Tributary to Accotink Bay
024*	38° 44' 10"	-77° 9' 20"	Unnamed Tributary to Dogue Creek
025	38° 42' 52"	-77° 9' 29"	Unnamed Tributary to Accotink Creek
026	38° 42′ 8″	-77° 7' 50"	Unnamed Tributary to Potomac River
027	38° 41' 17"	-77° 9' 1"	Unnamed Tributary to Accotink Bay
028	38° 43' 42"	-77° 8' 47"	Dogue Creek
029	38° 43' 45"	-77° 8' 27"	Dogue Creek
030	38° 41' 48"	-77° 9′ 13"	Dogue Creek
031*	38° 45' 15"	-77° 12' 0"	Accotink Creek
032*	38° 45′ 0"	-77° 11' 45"	Accotink Creek
033	TBD	TBD	Unnamed Tributary to Accotink Bay

<sup>\*</sup>Security restriction only allows for approximate location

Table 3510-2F-I: Representative Outfall Locations

A. Representative Outfall ID	B. Latitude	C. Longitude	D. Receiving Water
001	38° 43' 15"	-77° 11' 20"	Accotink Creek
002	38° 43' 6"	-77° 10' 41"	Unnamed Tributary to Accotink Creek
003	38° 42' 37"	-77° 10' 15"	Unnamed Tributary to Accotink Creek
004	38° 42' 26"	-77° 10' 21"	Unnamed Tributary to Accotink Creek
005	38° 42' 6"	-77° 9' 15"	Unnamed Tributary to Accotink Bay
006	38° 41' 22"	-77° 8' 43"	Unnamed Tributary to Gunston Cove
007	38° 41' 3"	-77° 8' 28"	Unnamed Tributary to Gunston Cove
008*	38° 44' 20"	-77° 9' 15"	Unnamed Tributary to Dogue Creek
009	38° 43' 55"	-77° 10' 4"	Unnamed Tributary to Accotink Creek
010	38° 42' 39"	-77° 9′ 0"	Unnamed Tributary to Accotink Creek
011	38° 42' 36"	-77° 9' 13"	Unnamed Tributary to Accotink Creek
012	38° 42' 57"	-77° 10' 4"	Unnamed Tributary to Accotink Creek
013	38° 43' 13"	-77° 9' 7"	Unnamed Tributary to Accotink Creek
014	38° 43' 16"	-77° 9' 11"	Unnamed Tributary to Accotink Creek
015	38° 41' 36"	-77° 8' 49"	Unnamed Tributary to Accotink Bay
016	38° 42' 25"	-77° 7' 49"	Dogue Creek
017	38° 41' 56"	-77° 8' 54"	Unnamed Tributary to Accotink Bay
018	38° 40' 57"	-77° 8′ 10″	Unnamed Tributary to Gunston Cove
019	38° 40' 54"	-77° 8' 8"	Unnamed Tributary to Gunston Cove
020	38° 40' 44"	-77° 8' 11"	Unnamed Tributary to Gunston Cove
021	38° 40' 39"	-77° 8' 12"	Unnamed Tributary to Gunston Cove
022	38° 40' 28"	-77° 8' 26"	Gunston Cove
023	38° 42' 8"	-77° 9' 10"	Unnamed Tributary to Accotink Bay
024*	38° 44' 10"	-77° 9' 20"	Unnamed Tributary to Dogue Creek
025	38° 42' 52"	-77° 9' 29"	Unnamed Tributary to Accotink Creek
026	38° 42' 8"	-77° 7' 50"	Unnamed Tributary to Potomac River
027	38° 41' 17"	-77° 9' 1"	Unnamed Tributary to Accotink Bay
028	38° 43' 42"	-77° 8' 47"	Dogue Creek
029	38° 43' 45"	-77° 8' 27"	Dogue Creek
030	38° 41' 48"	-77° 9' 13"	Dogue Creek
031*	38° 45' 15"	-77° 12' 0"	Accotink Creek
032*	38° 45' 0"	-77° 11' 45"	Accotink Creek
033	TBD	TBD	Unnamed Tributary to Accotink Bay

<sup>\*</sup>Security restriction only allows for approximate location

Comment [CDG5]: Table has been updated to reflect all outfall location

Comment [CDG6]: Updated to show location of Discharge (4944)

Table 3510-2F-IVC-3: Structural and Non-Structural Control Measures by Drainage Area

Representative Outfall ISW ID (MS4 ID) Location	Substantially Identical Effluent Outfalls	Applicable Standard Industrial Classification (SIC) Codes and Activities	Respective Control Measures (US)
<b>001</b> (4944) Airfield (N)	4942	4581 - air transportation 4959 - snow plowing/ street 5541 - fueling station 7538 - vehicle repair shop sweeping 7542 - car/equipment washing	OWS, SW systems (culvert, outfall and piping), WW systems, drainage trenches, retention ponds, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
<b>002</b> (4951) Airfield (E)	4715, 4842, 4843, 4844, 4847, 4910, 4911, 4948, 4954, 4956, 4958, 4852, 4940, 4928, 4870, 4868,	4581 - air transportation 4959 - snow plowing/ street sweeping 5541 - fueling station 7538 - vehicle repair shop 7542 - car/equipment washing	OWS, SW systems, WW systems, drainage trenches, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
<b>003</b> (4991) Airfield (S)	4668, 4669, 4670, 4671, 4696, 4706	4581 - air transportation 4959 - snow plowing/ street sweeping 4953 - landfill 5541 - fueling station 7538 - vehicle repair shop 7542 - car/equipment washing	OWS, SW systems, WW systems, drainage trenches, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
<b>004</b> (4437) Belvoir Training Area	3302, 3992, 3993, 4430, 4432, 4434, 4435, 4442, 4444, 4446, 4450, 4452	4953 - landfill	SW systems, erosion controls, swales, WW systems.
005 (2758) HazWaste Facility (<90 day)	2759	4955 - hazardous waste storage and management	SW systems, drainage trenches, erosion controls - dry swales, covered loading/unloading areas.
<b>006</b> (2944) National Guard Motor Pool	N/A	7538 - vehicle repair shop	SW systems, erosion controls, swales, culvert, Good Housekeeping measures
<b>007</b> (2822) 21 <sub>st</sub> St Waste Facility	2823, 2829, 2832	4952 - sewage pumping stations 4953 - waste facility/landfill	SW systems, erosion controls, swales, enclosed control areas for waste, employee training, Good Housekeeping measures.

		<del>-</del>	
<b>008</b> (5023) ADF (NE)	5015, 5017, 5018, 5021, 5026, 5028, 5038	4911 - power generation 4955 - hazardous waste storage and management 4961 - system heat generation/ac systems 7538 - vehicle repair shop 8731 - engineering, chemical and industrial labs	OWS, SW systems, WW systems, drainage trenches, enclosed control areas for waste, spill plan, preventative maintenance programs.
<b>009</b> (5724) Golf Course Swank/Snyder	4040, 4042, 4044, 4050, 4052, 4054, 4300, 5318, 5320, 5321, 5594, 5596, 5597, 5726, 5729, 5767, 5768, 5779, 5782, 5784, 5788, 5844	4953 - waste refuse system 7997 - golf courses	SW systems, drainage trenches, enclosed areas for waste, spill plan, preventative maintenance, covered handling areas for repairs and loading/unloading
010 (3244) 249th Prime Power Motor Pool	3243, 3258, 3260	7538 - vehicle repair shop 7542 - car/equipment washing	SW systems, drainage trenches, enclosed areas for waste, spill plan, preventative maintenance
<b>011</b> (7242) Washrack/ 12th Aviation Motor Pool	3209, 3211, 3220, 3222, 3215	7538 - vehicle repair shop 7542 - car/equipment washing	SW systems, OWS, drainage trenches
<b>012</b> (5511) Mosby Center	5737, 5740, 5510, 5512, 5521, 5514	5812 - dining facility 7538 - general auto repair shop	SW systems, WW systems, covered repair areas, unloading and loading areas, spill plan and BMPs in place.
<b>013</b> (3761) Arby's/ AAFES Station	3762, 3763, 3771	5541 - fueling station 5812 - dining facilities	SW systems, WW systems, covered repair areas, unloading
<b>014</b> (3755) AAFES Station	3745, 3752, 3753, 3756, 3757, 3758, 3759, 3773	5541 - fueling station 5812 - dining facilities	SW systems, WW systems, covered repair areas, unloading and loading areas, OWS.
<b>015</b> (2179) 16տ Street Storage Area	1611, 1636, 1696, 2176, 2941, 5818, 5889, 5892	4212 - debris removal/garbage collection 4959 - snow plowing/street sweeping 4911 - power generation 4952 - sewage pumping stations 4953 - waste facility/landfill 5541 - fueling station 5812 - dining facilities 7538 - vehicle maintenance shop 7542 - car washes	SW systems (storm drains, and drainage channels), spill plan and BMPs in place, WW systems.

<b>016</b> (4471) Marina	4467, 4469, 4474,	4493 - marina	SW systems, WW systems, covered repair areas,
017 (7243) Building 1809 Recycling Center and Compost Yard	N/A	4953 - landfill	unloading and loading areas.  N/A
<b>018</b> (1828) 300 Area Totten Rd	N/A	N/A	N/A
<b>019</b> (2196) Building 322 General Lab 300 Area	1826, 1827, 1829, 1830, 1834, 1836, 1882, 1994, 2034, 2036, 2037, 2538, 2539, 2540	4911 - power generation Major Group 34 - metal shop 8731 - engineering, chemical and industrial labs 8734 - testing labs	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
<b>020</b> (2193) Building 324 Lab and Storage	1814, 1821, 1824, 1927, 1931, 1933, 1938, 1941, 2193	8731 - engineering, chemical and industrial laboratories 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place
<b>021</b> (2189) Building 305 Night Vision	1728, 1798, 1801, 1803, 1806, 1817, 2182, 2184, 2185	8731 - engineering, chemical and industrial laboratories 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas
<b>022</b> (2128) 300 Area - Marina	1810, 1886, 1889, 1892	4493 - marina 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
<b>023</b> (2775) Building 1497 Warehouses	2753, 2755, 2766, 2769, 2781, 2796, 2949, 2950	4955 - hazardous waste storage and management	SW systems (storm drains), spill plan and BMPs in place, covered storage areas.
<b>024</b> (5234) ADF (SW)	5203, 5220, 5225, 5232, 5242, 5274, 5280	4961 - system heat generation/ac systems	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
<b>025</b> (3339) Mead Road Contractor Lot	3346, 3348, 3345	4953 - landfill	BMPs in place
026 (376) A08 and A09 Closed Landfills at Markham School	0584, 0377, 0350	4953 - landfill	N/A
<b>027</b> (7245) A02 Theote Landfill	N/A	4953 - landfill	N/A

<b>028</b> (4334) A06 Building 2310 Landfill	4270, 4338, 4264, 5644, 4269, 5643	4953 – landfill, 4911 - power generation	N/A
029 (6004) A07 and A25 Mulligan Road Landfill	6007	4953 - landfill	Retention Pond
030 (7244) A26 Pohick Road Landfill (S)	N/A	4953 - landfill	N/A
031 (6438) Belvoir North NGA Area Pond 6	N/A	9511 - Air and Water Resource and Solid Waste Management	N/A
032 (6207) Belvoir North NGA Area Pond 8	6222, 6209	4911 - power generation 5541 - fueling station	Detention Pond
033 (TBD) 249 <sup>th</sup> Motorpool	TBD	TBD	TBD

### **Attachment 4**

Table 3510-2F-IVC-3: Structural and Non-Structural Control Measures by Drainage Area

Representative Outfall ISW ID (MS4 ID) Location	Substantially Identical Effluent Outfalls	Applicable Standard Industrial Classification (SIC) Codes and Activities	Respective Control Measures (US)
<b>001</b> (4944) Airfield (N)	4942	4581 - air transportation 4959 - snow plowing/ street 5541 - fueling station -7538 - vehicle repair shop sweeping 7542 - car/equipment washing	OWS, SW systems (culvert, outfall and piping), WW systems, drainage trenches, retention ponds, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
<b>002</b> (4951) Airfield (E)	4715, 4842, 4843, 4844, 4847, 4910, 4911, 4948, 4954, 4956, 4958, 4852, 4940, 4928, 4870, 4868,	4581 - air transportation 4959 - snow plowing/ street sweeping 5541 - fueling station 7538 - vehicle repair shop 7542 - car/equipment washing	OWS, SW systems, WW systems, drainage trenches, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
<b>003</b> (4991) Airfield (S)	4668, 4669, 4670, 4671, 4696, 4706	4581 - air transportation 4959 - snow plowing/ street sweeping 4953 - landfill 5541 - fueling station 7538 - vehicle repair shop 7542 - car/equipment washing	OWS, SW systems, WW systems, drainage trenches, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping
<b>004</b> (4437) Belvoir Training Area	3302, 3992, 3993, 4430, 4432, 4434, 4435, 4442, 4444, 4446, 4450, 4452	4953 - landfill	SW systems, erosion controls, swales, WW systems.
005 (2758) HazWaste Facility (<90 day)	2759	4955 - hazardous waste storage and management	SW systems, drainage trenches, erosion controls - dry swales, covered loading/unloading areas.
006 (2944) National Guard Motor Pool	N/A	7538 - vehicle repair shop	SW systems, erosion controls, swales, culvert, Good Housekeeping measures
<b>007</b> (2822) 21₅t St Waste Facility	2823, 2829, 2832	4952 - sewage pumping stations 4953 - waste facility/landfill	SW systems, erosion controls, swales, enclosed control areas for waste, employee training, Good Housekeeping measures.

Comment [CDG7]: 4852, 4940 were removed as they are part of the RO-002 Drainage Area

Comment [CDG8]: This is the Outfall Location, Not Substantial identical (SI)

Comment [CDG9]: Added: Discharge from bldg. 3146

Comment [CDG10]: Moved from RO-001

Comment [CDG11]: Added: discharges from bldg. 3121

Comment [CDG12]: Added: SI outfalls to RO-003

Comment [CDG13]: Removed: as they are part of the RO-029 Drainage Area; 6004 is RO-029, 5547 is downstream of outfall RO-029

Comment [CDG14]: Removed 2470 and 6746; they are downstream of the monitored outfall location

Comment [CDG15]: Added: SI within drainage area associated with the 21<sup>st</sup> street Facility

**Comment [CDG16]:** Removed: These are in a housing neighborhood; Not SI to RO-007

<b>008</b> (5023) ADF (NE)	5015, 5017, 5018, 5021, 5026, 5028, 5038	4911 - power generation 4955 - hazardous waste storage and management 4961 - system heat generation/ac systems 7538 - vehicle repair shop 8731 - engineering, chemical and industrial labs	OWS, SW systems, WW systems, drainage trenches, enclosed control areas for waste, spill plan, preventative maintenance programs.
<b>009</b> (5724) Golf Course Swank/Snyder	4040, 4042, 4044, 4050, 4052, 4054, 4300, 5318, 5320, 5321, 5594, 5596, 5597, 5726, 5729, 5767, 5768, 5779, 5782, 5784, 5788, 5844	4953 - waste refuse system 7997 - golf courses	SW systems, drainage trenches, enclosed areas for waste, spill plan, preventative maintenance, covered handling areas for repairs and loading/unloading
010 (3244) 249th Prime Power Motor Pool	3243, 3258,  3260	7538 - vehicle repair shop 7542 - car/equipment washing	SW systems, drainage trenches, enclosed areas for waste, spill plan, preventative maintenance
011 (7242) Washrack/ 12th Aviation Motor Pool	3209, 3211, 3220, 3222, 3215	7538 - vehicle repair shop 7542 - car/equipment washing	SW systems, OWS, drainage trenches
<b>012</b> (5511) Mosby Center	5737, 5740, 5510, 5512, 5521, 5514	5812 - dining facility 7538 - general auto repair shop	SW systems, WW systems, covered repair areas, unloading and loading areas, spill plan and BMPs in place.
013 (3761) Arby's/ AAFES Station	3762, 3763, 3771	5541 - fueling station 5812 - dining facilities	SW systems, WW systems, covered repair areas, unloading
<b>014</b> (3755) AAFES Station	3745, 3752, 3753, 3756, 3757, 3758, 3759, 3773	5541 - fueling station 5812 - dining facilities	SW systems, WW systems, covered repair areas, unloading and loading areas, OWS.
<b>015</b> (2179) 16տ Street Storage Area	1611, 1636, 1696, 2176, 2941, 5818, 5889, 5892	4212 - debris removal/garbage collection 4959 - snow plowing/street sweeping 4911 - power generation 4952 - sewage pumping stations 4953 - waste facility/landfill 5541 - fueling station 5812 - dining facilities 7538 - vehicle maintenance shop 7542 - car washes	SW systems (storm drains, and drainage channels), spill plan and BMPs in place, WW systems.

Comment [CDG17]: This is the outfall itself

Comment [CDG18]: Added

Comment [CDG19]: Moved from RO-004

Comment [CDG20]: Moved to RO-011

Comment [CDG21]: Moved from RO-010

Comment [CDG23]: Deleted: N-14 - Historical records from SWMU N-14 indicate that there are no documented releases or spills related to this former oil/water separator. Additionally the wash rack has been inactive since the 1980s. C-03: Based on a review of historical documentation of this site, there is no evidence or indications that any type of release into environment has occurred at this site that would require further actions.

**Comment [CDG22]:** 4418, 5515, 5516, 5825 were removed because they are located outside the drainage area for RO-012

**Comment [CDG24]:** Wash rack inactive since 1980s, see comment above

Comment [CDG25]: No Car Wash at this location and no future plans for it

<b>016</b> (4471) Marina	4467, 4469, 4474, 5899	4493 - marina	SW systems, WW systems, covered repair areas, unloading and loading areas.
017 (7243) Building 1809 Recycling Center and Compost Yard	N/A	4953 - landfill	N/A
<b>018</b> (1828) 300 Area Totten Rd	N/A	N/A	N/A
<b>019</b> (2196) Building 322 General Lab 300 Area	1826, 1827, 1829, 1830, 1834, 1836, 1882, 1994, 2034, 2036, 2037, 2538, 2539, 2540	4911 - power generation Major Group 34 - metal shop 8731 - engineering, chemical and industrial labs 8734 - testing labs	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
020 (2193) Building 324 Lab and Storage	1814, 1821, 1824, 1927, 1931, 1933, 1938, 1941, 2193	8731 - engineering, chemical and industrial laboratories 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place
<b>021</b> (2189) Building 305 Night Vision	1728, 1798, 1801, 1803, 1806, 1817, 2182, 2184, 2185	8731 - engineering, chemical and industrial laboratories 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas
<b>022</b> (2128) 300 Area - Marina	1810, 1886, 1889, 1892	4493- Marina 8731- engineering, chemical and industrial laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
<b>023</b> (2775) Building 1497 Warehouses	2753, 2755, 2766, 2769, 2781, 2796, 2949, 2950	4955 - hazardous waste storage and management	SW systems (storm drains), spill plan and BMPs in place, covered storage areas.
<b>024</b> (5234) ADF (SW)	5203, 5220, 5225, 5232, 5242, 5274, 5280	4961 - system heat generation/ac systems	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
025 (3339) Mead Road Contractor Lot	3346, 3348, 3345	4953 - landfill	BMPs in place
026 (376) A08 and A09 Closed Landfills at Markham School	0584, 0377, 0350	4953 - landfill	N/A
027 (7245) A02 Theote Landfill	N/A	4953 - landfill	N/A

Comment [CDG27]: Moved to RO-019

Comment [CDG26]: Outfall pipe has been filled in and rerouted via a concrete channel to RO-019 due to a Stream Restoration Project. The drainage will continue to be monitored via sampling at RO 019 (see Attachment 6)

Comment [CDG28]: Listed in RO-020

Comment [CDG29]: Added: From RO-018

Comment [CDG30]: Moved to RO-021

Comment [CDG31]: Added from RO-20

Comment [CDG32]: Moved to RO-022

Comment [CDG33]: Added from RO-021

Comment [CDG34]: Removed: MS4 Outfalls located outside of the drainage for RO-023

Comment [CDG35]: Moved to RO-009

Comment [CDG36]: This is not a valid ID

<b>028</b> (4334) A06 Building 2310 Landfill	4270, 4338, 4264, 5644, 4269, 5643	4953 – landfill, 4911 - power generation	N/A
029 (6004) A07 and A25 Mulligan Road Landfill	6007	4953 - landfill	Retention Pond
030 (7244) A26 Pohick Road Landfill (S)	N/A	4953 - landfill	N/A
031 (6438) Belvoir North NGA Area Pond 6	N/A	9511 - Air and Water Resource and Solid Waste Management	N/A
032 (6207) Belvoir North NGA Area Pond 8	6222, 6209	4911 - power generation 5541 - fueling station	Detention Pond
033 (TBD) 249 <sup>th</sup> Motorpool	TBD	TBD	TBD

Comment [CDG37]: Moved from RO-004

# Table 3510-2F-IV-B-2: Material Loading / Access Areas

Building Number	Area Designation	Description of Activity
1124	16th Street Fueling Area	Offloading and storage of various fuels and oil products.
1197	12th Street Service Station	Offloading and storage of various fuels and oil products.
1495	HazWaste Facility (<90 day)	Offloading and storage of hazardous waste.
1496	Pest Shop	Offloading and storage of various herbicides, pesticides, and related chemicals.
3162	DAAF Fuel Island	Offloading and storage of various fuels and oil products.

## Table 3510-2F-IV-B-2: Material Loading / Access Areas

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Comment [CDG38]: This is a less than 90 day Hazardous Waste holding facility; A HAZMART refers to a material distribution point

VAO	(Additi		rater Outfall Deta n as Requested b		mation	Table 3510-2		al and Non-Structure Control (From Permit Application)	Measures by Drainage Area			ater Outfall Overview tion as Request by VADEQ
Representative Outfall	Internal Outfall/ Structure ID	Latitude	Longitude	Receiving Water	'Common Name' & Comments	Representative Outfall ID Ref ID (MS4 ID)	Substantially identical Effluent Outfalls	Applicable Standard Industrial Classification (SIC) Codes and Activities	Respective Control Measures (US)		Outfall Overvie	ew Summary
001	4944	38°43'15"	-77°11'20"		DAAF North Near Telegraph Road	001 (4944) Airfield (N)	4942	4581 - air transportation 4959 - snow plowing/ street 5541 - fueling station 7538 - vehicle repair shop sweeping 7542 - car/equipment washing	OWS, SW systems (culvert, outfall and piping), WW systems, drainage trenches, retention ponds, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.	airfield operstio	ns (primarily th o has a generat	er drainage flow from e runway departure side). or (with fuel supply) that is
				UT to Accotink								
	4942	38.71967817	-77.19082301	Creek								
002	4951	38* 43' 6"	-77° 10' 41"	UT to Accotink Creek	DAAF East Large Bridge at Trail	002 (4951) Airfield (E)	4715, 4842, 4843, 4844, 4847, 4910, 4911, 4948, 4954, 4956, 4958, 4852, 4940, 4928, 4870, 4868	4581 - air transportation 4959 - snow plowing/ street 5541 - fueling station 7538 - vehicle repair shop sweeping 7542 - car/equipment washing	OWS, SW systems (culvert, outfall and piping), WW systems, drainage trenches, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.	airfield operstion This section, also	ns (primarily the has aircraft pa aft, aircraft han	r drainage flow from e runway departure side). arking for both fixed wing gers, material storage vashrack.
		'		UT to Accotink								
	4715	38.71621703	-77.17773844									
	4842	38.71731187	-77.18307545	UT to Accotink Creek								
	4843	38.71731187	-77.18307545	UT to Accotink Creek								
	4844	38.7167186	-77.1822728	UT to Accotink Creek								
	4847	38.71889278		UT to Accotink	,	· ·						
	4868	38.71668541	-77.18469291	UT to Accotink Creek								

		1		HT A.								
1	1 1			UT to		1						
1	4870	38.71602181	-77.18622345	Accotink		1	1			1	1	
ļ	4070	36./1602161	-//.18022345								L	
1	1 1	1		UT to	1							
1				Accotink			1		1	1	1	
	4910	38.71740743	-77.17696019		<u> </u>							
	1 1			UT to								
1	1 1			Accotink	1				1			
	4911	38.71338001	-77.18232863	Creek					1	1	ļ	
				UT to								
1	1 1			Accotink								
L	4928	38.71557414	-77.1865661	Creek								
				UT to					<del>                                     </del>	-		
1	1 1			Accotink					1			
	4940	38.71766224	-77.18795305									- 1
	1					<del></del>	+				<del> </del>	
				UT to		1						
1	4040	20 72000100	77 40004-0	Accotink							1	
<b>——</b>	4948	38.72000196	-77.1800459						<u>L</u>		L	
				UT to								
I	1			Accotink		1		1		1	1	
<u></u>	4852	38.71816322	-77.18764124									[ ]
				UT to							1 -	
1				Accotink			1					
	4954	38.71760784	-77.17891853									
				UT to						1	Ì	
1				Accotink		1			1	1		
	4956	38.71779207	-77.17936889				1					i i
				UT to								
1				Accotink			1	!				1
	4958	38.71742302	-77.18011891	Creek								
	1 1					I						
						l .			OWS, SW systems (culvert,			
	1							4581 - air transportation	outfall and piping), WW	This outfall recei	ves stormwate	r drainage flow from
1							1	4959 - snow plowing/ street	systems, drainage trenches,	airfield operation	s (primarily the	e runway approach side)
1	1						1	4953 - landfill	covered loading areas and	This section, also	has aircraft na	rking for both fixed wing
	1 1							5541 - fueling station	material handling areas,	and rotary aircra	ift, aircraft hans	gers, material storage
1	1 1				DAAF South			7538 - vehicle repair shop	deicing areas, master spill	areas, aircraft fu	eling, aircraft w	ashrack and fire
ł				UT to	Parameter		4668, 4669,	sweeping	plans, employee training,	department stati	on with trainin	g facilities. In addition this
	1			Accotink	Roadway at	003 (4991)	4670, 4671,	7542 - car/equipment	Good Housekeeping	draining area ha	s two SWMII'e	that are closed with no
003	4991	38° 42' 37"	-77° 10' 15"	Creek	Bridge	Airfield (S)	4696, 4706	washing	measures.	further action fo		mat are closed with 110
				UT to		1				Sacre decion to	cinculation.	
1				Accotink		ı	1		1			
	4668	38.71035716	-77.17095464	Creek		I	1					
				UT to			<del>                                     </del>		<del></del>	+	-	
1	1 1			Accotink	}	I	1					
	4669	38.7119633	-77.17500703			I	1					·
	1 1			UT to		<del></del>	<del>                                     </del>			-		
				Accotink		I	1		İ			
	4670	38.71365418	-77.17826064				ł					
					L			<u> </u>	<u> </u>	1	L	

	_	1		UT to		<u> </u>	T	T				
1				Accotink		1						
1	4671	38.71383791	-77.17814036			· ·			1			
	10/1	30.71303731	-77.17014030	UT to	<del> </del>		ļ					
1				Accotink	ľ	I						
1	4696	38.7144642	-77.17628988			1	i		1			
	4030	36.7144042	-//.1/020300		<del></del>							
1	1 1			UT to								
	4706	20 71402057	77 47742242	Accotink		l .			1		1	
	4708	38.71493057	-77.17712313	Creek								
						l .				This outfall recei	ves drainage fr	om the southwest training
	1 1									area on post (so	uth of US Route	e 1). The area contains
	1 1						3302, 3992,			closed landfills,	managed wild	ilife refuge and training
	1 1						3993, 4430,	İ				outfall encompases two
	1 1						4432, 4434,			closed landfills (	not active), one	of which is still actively
	1 1	1		UT to		004 (4437)	4435, 4442,			monitored. The	area has one re	oadway that circles the
					SW Training/		4444, 4446,		SW systems, erosion controls-	entire site and it	has restricted	access (additional gate
004	4437	38° 42' 26"	-77° 10′ 21"		Cullum Woods	Area	4450, 4452	4953 - landfill	swales, WW systems.	access required)		
				UT to								
1	2202	7.7.7.7.7.1.0		Accotink								i
	3302	38.70156948	-77.16816095					<u>L</u>				
1				UT to								
1				Accotink				i		]		
	3992	38.70688395	-77.17994381					<u>L</u>				
				UT to								
1				Accotink								
	3993	38.70689451	-77.17980349									
1				UT to								
	4430	38.70691387	77 17030360	Accotink	1							1
	4430	30.70031367	-77.17838268	UT to								
1				Accotink				1				
1	4432	38.706784	-77.177007			1				i		
	4432	36.700764	-77.177007	UT to								
1		1		Accotink								
1	4434	38.70675604	-77.17729135			l l	[					
	1	300073004	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	UT to								
	1 1			Accotink								
1	4435	38.70694614	-77.1751911									
	+ +		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	UT to								
1				Accotink								
1	4442	38.70656636	-77.16883971									
	1			UT to						<u> </u>		
	1 1			Accotink								
	4444	38.70523917	-77.16813002									
	+	-		UT to					<del>                                     </del>			
				Accotink					1			
	4446	38.70309616	-77.16732284				İ					
	1			UT to							<del></del>	
i .	1 1			Accotink								
	4450	38.70432965	-77.1663616	Creek					1			

	1		_	TUT to				1				
				Accotink								
	4452	38.70396855	-77.16636605	Creek							L	
									:	hazardous waste	storage facility	tallations permitted y on Sharon Lane. This ding, parking area,
005	2758	38 <b>*</b> 42' 6"	-77 <b>°</b> 9′ 15″		HazWaste Bldg	005 (2758) HazWaste Facility (<90 day)	2759	4955 - hazardous waste storage and management	SW systems, drainage trenches, erosion controls - dry swales, covered loading/unloading areas.	pavement). This under the MS4 F Action Plan was	site is also beil Permit for the P submitted to the ober 2013 (no c	ge in sea containers (on ng sampled and monitored CB TMDL. The PCB TMDL ne Northern Regional Office comments were received on
	2759	38.70170108	-77.15380065	UT to Accotink Creek								
006	2944	38* 41' 22"	-77° 8' 43"	UT to Gunston Cove	VANG MP Theote	006 (2944) Building VA National Guard Motor Pool	N/A (no other structure)	7538 - vehicle repair shop	SW systems, erosion controls swales, culvert, Good Housekeeping measures.	National Guard I pool stores a var maintenane acti installation (not storage of fuel o	Motor Pool off lety of equipmovity is performe on Fort Belvoir in site for the educed fuel can are stol	age from the Virginia of Theote Road. The motor ent on site but any ed at a different military ). The facility also can have quipment in small red under cover and with
007	2822	38° 41' 3"	-77 <b>"</b> 8' 28"	Cove	21st Steet Waste Facility	007 (2822) 21st Street Waste Facility	2823, 2829, 2832	4952 - sewage pumping stations 4953 - waste facility/landfill	SW systems, erosion controls swales, enclosed control areas for waste, employee training, Good Housekeeping measures.	Waste Debris Co housing and a sa previous cleanup and also PCB sto concrete). The fo	Ilection & Recyonitary pump state of efforts due to rage (was remeacility receives materials. The	ige from the 21st Street cling Facility along with ation. This site has had being a coal storage site diated and capped with wood, metal, tires and facility collects, compacts,
	2832	38.68608006	-77.13958402	UT to Gunston Cove								
	2823	38.68505957	-77.14053931									
	2829	38.68576122	-77.13981804	UT to Gunston Cove								

008	5023	38* 44' 20"	-77 <b>°</b> 9' 15"	UT to Dogue Creek UT to	ADF-E Northeast Specific GPS Coordinates are Classified. The one given is a general location.	008 (5023) ADF (NE)	5015, 5017, 5018, 5021, 5026, 5028, 5038	4911 - power generation 4955 - hazardous waste storage and management 4961 - steam and heat generation/ ac systems 7538 - vehicle repair shop 8731 - engineering, chemica and industrial labs	OWS, SW systems, WW systems, drainage trenches, enclosed control areas for waste, spill plan, preventative maintenance programs.	facilities at this s maintenance far storage and a sa hazardous waste up generators), and cooling tow	site. The draina cility with equip off dome for sno e storage facilit fuel storage (ur ers for air cond house facilities	rom a wide range of ge area for this includes the oment storage, mulch ow removal. There is also a y, power generation (back derground), steam heat itioning (discharge to and general national
	5015	38.738229	-77.1525	Dogue Creek								
	5017	38.737776	-77.153061	UT to Dogue Creek UT to								
	5018	38.737642	-77.15316									
	5021	38.73827	-77.153555									
	5023	38.738101	-77.15411	UT to Dogue Creek								
	5026	38.737976	-77.154262	k								
	5028	38.737664	-77.154291	UT to Dogue Creek								
	5038	38.738135	-77.155004	UT to Dogue Creek								
009	5724	38* 43' 55"	-77* 10' 4"	UT to Accotink Creek UT to	Golf Cource Maintenance at bridge	009 (5724) Golf Course Swank/Snyder	4040, 4042, 4044, 4050, 4052, 4054, 4300, 5318, 5320, 5321, 5594, 5596, 5597, 5726, 5729, 5767, 5768, 5779, 5782, 5784, 5788, 5844	4953 - waste refuse system 7997 - golf course	SW systems, drainage trenches, enclosed areas for waste, spill plan, preventative maintenance, covered handling areas for repairs and loading/unloading.	maintenance fac minimal flow fro maintenance fac equipment used mowers). There	ility, a small RV m the golf cour ility maintains to upkeep the is storage for f al. Also adjacer	all of the golf carts and the golf course (for example uels, mulch and some salts at to the maintenance
	4040	38.72840524	-77.16078973									
	4042	38.7301268	-77.16083625	UT to Accotink Creek								

				Trum.						_			
				UT to									
1				Accotink		l					1	1	
	4044	38.73022084	-77.16094019	Creek			1	1				i	ł
				UT to			<u> </u>				<del>                                     </del>	<del>                                     </del>	
				Accotink		l .			I			1	
	4050	38.73162112	-77.16079158	Creek	1	l .						1	
-		000102222	77120075250	UT to				-					
1 1	l i												
1 .				Accotink				1				i .	
	4052	38.73230224	-77.15845395								1		
1 1		1		UT to									
1 1		I		Accotink				1				1	
	4054	38.7314384	-77.15716037	Creek			1	1					
				UT to			-						
1 1		- 1		Accotink								l .	
1 1	4300	38.7340414	-77.15857012		ľ		1	1					
	4500	30.7340414	-77.15857012										]
				UT to									
		ĺ		Accotink			1						
	5318	38.73811	-77.161943	Creek		1							
				UT to									
				Accotink							ĺ		
	5320	38.738243	-77.16176									i	
		30.7302.13	17.10170	UT to									
1 1							1						
				Accotink									
	5321	38.738206	-77.161999		<u>L</u>								
				UT to									
				Accotink									
	5594	38.73774595	-77.16258413										
				UT to									
				Accotink							ļ		
	5596	38.73779875	-77.16209035				1						1
	3390	30./3//30/3	-77.10209033										
				UT to									
1 1				Accotink									
	5597	38.7377845	-77.16209195										
				UT to						-		<del> </del>	
] [				Accotink				1					
	5726	38.7319025	-77.16708161										
<del></del>				UT to				<del></del>					
1		20 7240040-	77 4	Accotink					1				
<b></b>	5729	38.73180485	-77.16729124										
	1			UT to								-	
1	- 1	İ		Accotink								i	
	5767	38.73327177	-77.16656956	Creek								1	
				UT to	-		<del> </del>					-	
				Accotink		I							
	5768	38.73338786	-77.16654542			I							
	3/08	30./3558/86											
	1			UT to									
				Accotink			1					l	
L	5784	38.73299399	-77.16081362	Creek					1			l	
				UT to								<del></del>	
]		]		Accotink				[					
	5788	38.72757224	-77.16302929										
	3,00	30.72737224	77.10302323	CICCK								L	

			<del></del> -	UT to	T							
1 1	1 1			Accotink		1						
	5844	38.73792733	-77.16313826	Creek		l .	1		*			
				UT to		010 (3244) 249th Prime		7538 - vehicle repair shop	SW systems, drainage trenches, enclosed areas for	their site. The p vehicle washing approved tatical sanitary after go Outfall 011). The storage tanks wi vehicle is stored 249th Prime Pov Road to a new lo Theote Road. The to Accotink Bay	erform some be is completed ei washrack which ing through an are is small fuel th secondary or with a drip pan wer will be move tocation at the or is new location (discharge is fur	anly has a motor pool on asic maintenance. Any ther at Fort AP Hill or at the hischarges into the oil/water separator (see storage with above ground ontainment. Each tatical when not in use. The ing from this site on Meade would discharge into a UT ther downstream into tion). This move is
040				Accotink	249th Prime	Power Motor	3243, 3258,	7542 - car/equipment	waste, spill plan, preventative			er-October 2015. New GPS
010	3244	38° 42' 39"	-77° 9' 0"	Creek UT to	Power Meade Rd	Pool	3260	washing	maintenance.	coordinates will	be obtained on	ce the facility is built.
	3243	38.71065874	-77.15004405	Accotink Creek								
	3258	38.71100164	-77.15204263	UT to Accotink Creek UT to								
	3260	38.71159131	-77.15197482	Accotink							·	
011	7242	38° 42' 36" 38.71138377	-77* 9' 13"	Creek UT to Accotink	1985 Washrack/ 12th Aviation MP			7538 - vehicle repair shop 7542 - car/equipment washing	SW systems, OWS, drainage trenches	and from the 12th Washrack has the capture any storn and diverts it eith upstream. The vibasin which ther sanitary. Any soil and disposed of 12th aviation more ground storage to tatical vehicle is a Any vehicle main	th Aviation Motench drains thromwater before the toward the vashrack pad draids from the second to pool has smanks with second to the torpool has smanks with second to the torpool from the second to the torpool from the tenance is comploor floor drains	art of the Tatical Washrack or Pool. The Tatical bugh out the wash pad to it flows onto the wash pad outfall or to an area just ains to a concrete settling an oil water separator to ttling basin are collected disposal (landfill). The hall fuel storage with above idary containment. Each ip pan when not in use. pleted inside the facility have either been capped

				UT to	1							
				Accotink								
1	3211	38.71062026	-77.15323445			I	1					
	<del>                                     </del>			UT to		-	-		<del> </del>	<del>                                     </del>	<del>                                     </del>	
1				Accotink	1		1					
	3220	38.71081623	-77.15347242			I						
				UT to			1			-	-	
		İ		Accotink		I						
	3222	38.7107594	-77.15303463									
1				UT to								
	,,,,,	38 74005663	77 4 5 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	Accotink	1	I				1		
	3215	38.71095663	-77.15302994	Lreek		<del> </del>	ļ					
1												
1						1		1				
1						1						
						I	1			This outfall rece	ives flow from 1	the Mosby Reserve Center
1							1			Motor Pool. An	y vehicle washi	ng is completed either at
										Fort AP Hill or at	the approved	tatical washrack which
1						l				discharges into t	he sanitary afti	er going through an
						l .						011) The Mosby Reserve
							1					el storage with above
	i											ndary containment. Each
								1		tatical vehicle is	stored with a d	Imp pan when not in use.
												npleted inside the facility
												erior floor drains have
	1 1								SW systems, WW systems,	enner been cap	dea or arains to	sanitary. The main reserve
				UT to			5737, 5740,	1	covered repair areas,	that is only in ye	opes nave a car	eteria style dining facility r a reserve weekend and/or
	i I			Accotink	Mosby Reserve	012 (5511)	5510, 5512,	5812 - dining facility 7538 -	unloading and loading areas,	a coromony. Th	e as needed to	r a reserve weekend and/or I cooking oil storage until it
012	5511	38° 42' 57"	-77° 10' 4"		Center	Mosby Center	5521, 5514	vehicle repair shop	spill pland and BMPs in place.	is picked up by a	contractor for	disposal
				UT to	_		1000,000	Territor (apair Strop	spin plane and bivil 3 in place.	is picked up by a	Contractor for	disposal.
				Accotink								
	5737	38.71644041	-77.1691449	Creek			1					
				UT to	<del>†                                      </del>		1			-	<del>                                     </del>	
				Accotink			1					
	5740	38.71724457	-77.16916275							ļ		
				UT to					· · · · · · · · · · · · · · · · · · ·			
				Accotink								
	5510	38.71626615	-77.16885002								i	
				UT to								
	[]	20		Accotink		I	I			ŀ		
	5512	38.715511	-77.167065									
				UT to								
		38 71771376	77 46776605	Accotink	1	ı	I					
	5521	38.71771378	-77.16775635									
				UT to		ı						
		20 74544552	46-00	Accotink		I					i	
	5514	38.71611552	-77.16587738	Creek	1					ŀ	l	

013	3761	38* 43' 13"	-77° <b>9</b> ' 7''	UT to	AAFES Arby's (Formerly Church's Chicken)	013 (3761) Church's Chicken/ AAFES Station	3762, 3763, 3771	5541 - fueling station 5812 - dining facilities	SW systems, WW systems, covered repair areas, unloading and loading areas, OWS.	food facility (for store (convience behind these fac materials used a fluid,etc.) which the top end of ti	merly Chruch's e store). There cilities for used at the Class 6 str are housed in his drainage is a vered and all w	the area behind the Arby's Chicken) and the Class 6 is small storage of materials cooking oil and for ore (windshield washer closed storage sheds. At also the car wash on post. rashwater goes through a the sanitary.
	3762	38.72041695	-77.15174055	Accotink Creek								
				UT to	<del>-</del>							
	3763	38.72049591	-77.15191036	Accotink								
	3703	30.720-3331	-77.13131030	UT to	<del> </del>							
l	3771	38.72088818	-77.15078023	Accotink Creek			:					
014	3755	38° 43' 16"	-77 <b>°</b> 9' 11"		AAFES Class 6 Fuel	014 (3755) AAFES Station	3745, 3752, 3753, 3756, 3757, 3758, 3759, 3773	5541 - fueling station 5812 - dining facilities	SW systems, WW systems, covered repair areas, unloading and loading areas, OWS.	the fuel islands inside (Dunkin D for spills. Most o	The Class 6 doo onuts). There a of the area is pa	the AAFES Class 6 store and es have a dining facility ire set procedures posted avement and sidewalks, hemicals at this facility.
	3745	38.72161615	-77.15294327									
	3752	38.72090385	-77.15318207									
<u>.</u>	3753	38.72108784	-77.15319506									
	3756	38.72102497	-77.15290798									
	3757	38.72112614	-77.15270639									
	3758	38.72113151	-77.15237824									
	3759	38.72087125	-77.15205562									
	3773	38.72153082		UT to Accotink Creek								

015	2179	38" 41' 36"	-77° 8' 49"	UT to Accotink Bay	015 (2179) 16th Street Storage Area	1611, 1636, 1696, 2176, 2941, 5818, 5889, 5892	4212 - debris removal/garbage collection 4959 - snow plowing/ street sweeping 4911 - power generation 4952 - sewage pumping stations 4953 - waste facility / landfill 5541 - fueling station 5812 - dining facilities 7538 - vehicle repair shop 7542 - car washes	SW systems (storm drains and drainage channels), spill plan and BMPs in place, WW systems.	area includes the motor pool, the wharehouses, a contractor stora government mo maintenance (in separator on sit South Post Fire I washed trucks of fire station accretion that discharge to older with USTs and no mainten keep their procedus a maintenar containment, a sequipment, facil equipment, sani and generator for	e South Post Fi government fu n RV storage lo ge and maintei tor pool does o side only) and e that has a grif station is a hist utside. They ai sos the street w o sanitary. The The RV storag ance allowed. esses inside. Th ice shop, ASTs ice shop it should be able to be a ice shop it should be able to be a ice shop it should be able to be a ice shop it should be a ice shop	there is an oil water t collector to sanitary. The oric building and they have re building a replacement which will have floor drains governement fuel station is te lot is just paid storage All industrial wharehouses te Base Ops contractor yard
	1611	38.69387129	-77.14395761	UT to Accotink Creek					,		
	1636	38.69239826	-77.14316301	UT to Accotink Creek							
	1696	38.69074744	-77.14371479	UT to Accotink Creek							
	2176	38.69268944	-77.14818897	UT to Accotink Creek							
	2941	38.68914063	-77.14482883	UT to Accotink Creek							
	5818	38.69415829	-77.14589258	UT to Accotink Creek							
	5889	38.69310175	-77.14679078	UT to Accotink Creek							
	5892	38.69294677	-77.14674653	UT to Accotink							

										facility has floati ups, dock slips, t (secondary stora disposal with sec	ng docks with s oat storage, us ge/double wall condary contair	the DFMWR Marina. This sanitary dump station hook sed oil tank collection point I tank), and other fluids nment. The marina has a
016	4471	38° 42' 25″	-77° 7' 49"	Dogue Creek	DFMWR Dogue Creek Marina	016 (4471) Marina	4467, 4469, 4474	4493 - marina	SW systems, WW systems, covered repair areas, unloading and loading areas.		ntenance and washing. g a challenge with	
	4467	38.7077788	-77.13088914						and totaling areas.	emorcement or	tins policy with	their patrons.
	4469	38.70796513	-77.13030802									
	4474	38.70728251	-77.13052318	UT to Dogue Creek								
017	7243	38° 41' 56"	-77° 8' 54"		Recycling Center/ Compost Yard	017 (7243) Building 1809 Recycling Center and Compost Yard	N/A (no other structure)	4953 - tandfill	N/A	This outfall receives flow from the Recycling Center an Compost Yard. This facility has storage bins for collect of each of the type of materials (cardboard, paper, me etc.). The inside of the facility collects materials and so them for recycling and shipping off post as such.		
018	1828	38 <b>°</b> 40' 57".	-77° 8′ 10"	UT to Gunston Cove	300 Area Totten Rd Top	018 (1828) 300 Area Totten Rd	N/A (Outfall Pipe has been filled in)	N/A (Outfall Pipe has been filled in)	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.	This area receives flow from facilities that include the steam generation plants and back up power generator with their own fuel tanks (double walled tanks). There is also a metal fabrication shop and other buildings that ar research and development. This outfall is in a drainage		
019	2196	38" 40' 54"	-77* 8' 8'	Cove	300 Area Totten Rd General Lab 322	019 ( 2196) Building 322 General Lab 300 Area	1826, 1827, 1829, 1830, 1834, 1836, 1882, 1994, 2034, 2036, 2037, 2538, 2539, 2540	4911 - power generation Major Group 34 - metal shop 8731 - engineering, chemical and industrial labs 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.	This area receive up power genera walled tanks). Th other buildings ti is also a groundw	s flow from fact stor with their of ere is also a me hat are research vater remediation from this outfa	ulities that include the back own fuel tanks (double etal fabrication shop and h and development. There on system in place in the all. This outfall is in a
	1826	38.68125494	-77.13620989	UT to Gunston Cove						-		
	1827	38.68140103		UT to Gunston								
	1829	38.68246704	-77.13640183									
	1830	38.68270584		UT to Gunston Cove								

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	1 1					ľ						
1				Gunston		l .						
	1834	38.68279813	-77.13693291					1		1		
	1 1			UT to								
I	1 1			Gunston		I						
1	1836	38.68256033	-77.13618306	Cove								
	1 1			UT to				· · · · · · · · · · · · · · · · · · ·		-	<del></del>	
1	1 1			Gunston								
1	1882	38.68332644	-77.13765593									
	1002	30.00332014	-77.13703333	UT to								
	1 1					l .					1	
1				Gunston					ł			
	1994	38.68206765	-77.13867526									
	1 1			UT to								
				Gunston								
	2034	38.6831562	-77.13960439	Cove		l .			i			
				UT to					· · · · · · · · · · · · · · · · · · ·	-		
1				Gunston					1		l	
1	2036	38.68327657	-77.13961973		1				1		ł .	1
<del></del>		30.0032.037	77.25501575	UT to								
		ļ		Gunston							I	
1	2037	38.68327757	77 4205240			I		]	1		I	
	2037	38.08327757	-77.1395313								L	
				UT to								
1				Gunston	1					1	Ī	
	2538	38.68328059	-77.13945653		L				1			
				UT to								
1		ļ		Gunston		1		1	1		1	
I	2539	38.68339358	-77.13953138	Cove		1		1				
	<del>                                     </del>			UT to								
1	1 1			Gunston							]	
1	2540	38.68328386	-77.13831693					1				
	25.0	30.00320300	77.13031033	-							<u> </u>	
	1 1								1			
ŀ									i			
										This area receive	s flow from fac	ilities that include the back
												own fuel tanks (double
							1814, 1821,			welled tanks. Th	acor with their t	will fabrication the pro-
							1824, 1927,		SIM sustains (stars during)	walled tanks). If	iere is also a me	etal fabrication shop and
				UT to	300 Area Totten	020 (2102)		0324	SW systems (storm drains),	other buildings t	nat are researc	h and development. There
							1931, 1933,		WW systems, spill plan and	is also a groundy	vater remediati	on system in place in the
020		200 401 4			Rd Lab & Storage			and industrial labs	BMPs in place, covered			all. This outfall is in a
020	2193	38° 40' 44"	-77° 8' 11"		324	and Storage	2193	8734 - testing laboratories	storage areas.	drainage swale a		
		1		UT to								
				Gunston				1	1		l	
	1814	38.67880214	-77.13625582	Cove				1	1			
				UT to								
	1	1		Gunston			1	1		1		
	1821	38.6795224	-77.13731571						I			
				UT to		_				-		
Į i	j	I		Gunston								
	1824	38.67980872	-77.13720792				ĺ		I			
	1024	36.0/3608/2	-//.13/20/92									
		I		UT to								
				Gunston			1		I			
	1927	38.67894698	-77.13812758	Cove			L		I			
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	т											
1	1 1			UT to						T		
1	1			Gunston								
	1931	38.67925325	-77.13833118				<u>L</u>					
1	1 1	1		UT to							_	
1	1 1			Gunston			Ī	1	i	ľ		
1	1933	38.6796286	-77.13843134	Cove								!
				UT to						<del></del>		
l .				Gunston							!	
1	1938	38.67916147	-77.13931412	Cove					]	1		1
		-		UT to							<del></del>	
1				Gunston								
1	1941	38.67968299	-77.13838843		1	ı						
	<del>                                     </del>			UT to								
1	1 1			Gunston	ĺ	l .					1	1
1	2193	38.67862788	-77.1361782			l .						
		50.07002700	77.1301702	COTC		<del></del>	_				<u> </u>	
						I						
	1					I	1728, 1798,		l	This area receive	s flow from fac	cilities that include the back
						l .	1801, 1803,		SW systems (storm drains),	up power genera	ator with their	own fuel tanks (double
				UT to		021 (2189)	1806, 1817 ,	8731 - engineering, chemical	WW systems, spill plan and			er buildings that are
					300 Area Totten	Building 305	2182, 2184,	and industrial labs	BMPs in place, covered			is outfall is in a drainage
021	2189	38° 40' 39"	-77° 8' 12"	Cove	Rd 305	Night Vision	2185	8734 - testing laboratories	storage areas.	swale along Tott		is contain is in a arantage
				UT to						and and its its	I I	
1	1 1			Gunston	ļ							
	1728	38.67525584	-77.13826681	Cove	}				1			
	<del>                                     </del>			UT to								
1	1 1			Gunston		1						
1	1798	38.67587702	-77.1374577			l .						
	+			UT to								
	1 1			Gunston		ı	1		i			
1	1801	38.67656367	-77.13740992			1			ł			
	1	00.07.030207		UT to								
1	1 1			Gunston								i l
	1803	38.67588876	-77.13736055		ł							
<u> </u>	1003	30.07300070										
1				UT to			1					
1	1806	20 67660602		Gunston				1				
	1909	38.67660692	-77.13730917			<u> </u>						
1				UT to								
1	1 404-	***		Gunston	1		1					
	1817	38.67878806	-77.13730716			L	<u> </u>	<u> </u>				
	1 1			UT to								
1	1 1			Gunston								
	2182	38.67451429	-77.14050871									
	$\Gamma$			UT to					-			
1				Gunston			1					
i	2184	38.67663131	-77.1367299	Cove				1				
				UT to								
I				Gunston								
ł	2185	38.67675494	-77.1367294									
										L		

	1 1						o					
022	2128	<b>38*</b> 40' 28"	-77° 8' 26"	Gunston Cove	300 Area Marina	022 (2128) Marina 300 Area	128) 4493 - marina WW systems, spill plan and		up power gener walfed tanks). The research and de to the outfall is storage (small to containment), si basic storage of	ator with their here is also othe velopment. The military marin inker truck that mail maintenan materials (store mable lockers).	cilities that include the back own fuel tanks (double er buildings that are e closest and largest facility ia. This facility has fuel is parked on secondary ce activities, and some ed under cover and/or in This outfall is in a drainage	
				UT to						swale along the	Side of the mai	ina racility.
1				Gunston						ļ		
	1810	38.67500388	-77.13884675	Cove UT to								
				Ginston		ľ	1					
1	1886	38.67455612	-77.14005735			l .						
				UT to								
	1000	20.63500640	77 44040445	Ginston		l .						
	1889	38.67508619	-77.14049145	UT to				<del>-</del>				
				Ginston								
1	1892	38.67553747	-77.14008727									
023	2775	38* 42' 8"	-77° 9' 10"	Bay	Bldg 1497 Sharon Lane Storage	023 (2775) Building 1497 Warehouses	2753, 2755, 2766, 2769, 2781, 2796, 2949, 2950	4955 - hazardous waste storage and management	SW systems (storm drains), spill plan and BMPs in place, covered storage areas.	This area contains one of the hazardous waste storage buildings and the pesticide contractor's storage build for the installation. The facility has storage inside wi sealed floors.		
				UT to								
1	2753	38.70139732	-77.15242552	Accotink			Ì					į į
	2733	36.70133732	-77.LJZ4ZJJZ	UT to			-	<del>                                       </del>				
	2755	38.70135684	-77.15231588	Accotink Bay							t .	
1				UT to Accotink								
1	2766	38.70142766	-77.15228822			l						
	- 37	, , , , , , , , , , , , , , , , , , , ,		UT to	<del>                                     </del>		<del>                                     </del>					
				Accotink		I						
	2769	38.70252226	-77.15263733	<u> </u>								
				UT to Accotink		1						
	2781	38.70158776	-77.15269558			1						
		,		UT to				<del>                                     </del>				
		ļ		Accotink								
	2796	38.70171868	-77.15169042									
1				UT to								
1	2949	38.70339146	-77.15276423	Accotink Ray						1		
	25.75	30.70333140	77.13270423	UT to								
1				Accotink								
	2950	38.70301595	-77.1523914	Bay						1		
								<del></del>		-		

S203   38.734623   77.15592   Creek	024	5234	38" 44' 10"	-77 <b>°</b> 9' 20'		ADF-E Southwest - Specific GPS Coordinates are Classified. The one given is a general location.	024 (5234) ADF (SW)	5203, 5220, 5225, 5232, 5242, 5274, 5280	4961 - systems heat generation/ac systems	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.	facilities at this s maintenance fac a hazardous was up generators), and cooling tow	site. The draina cility with equip ste storage facil fuel storage (ur ers for air cond shouse facilities	om a wide range of ge area for this includes the inent storage. There is also ity, power generation (back iderground), steam heat itioning (discharge to and general national
S220   38.73458		5203	38.734623	-77.15437	Dogue Creek								
S225   38.735798   -77.155732   Creek		5220	38.734611	-77.155404	Dogue								
Dogue		5225	38.734798	-77.155922	Dogue								
Degue   S242   38.735525   -77.155907   Creek   UT to Dogue   S280   38.735683   -77.155067   Creek   UT to Dogue   S280   38.736176   -77.155637   Creek   UT to Dogue   S280   38.736176   -77.155631   Creek   UT to Dogue   S280   38.736176   -77.1563375   Creek   UT to Dogue   Dogue		5232	38.735599	-77.155715	Dogue								
Dogue  5274 38.735683 -77.156067 Creek  UT to Dogue  Creek  UT to Dogue  This outfall receives drainage from the Meade Road contractor yard on post (north east of US Route 1). Then are two closed SWMU in the area that are a result of the area being a former coal storage yard. The SWM have a No Further Action letter from US EPA Region 3 dated 7 Dec 2012. This outfall receives drainage from the Meade Road contractor yard on post (north east of US Route 1). Then are two closed SWMU in the area that are a result of the area being a former coal storage yard. The SWMU have a No Further Action letter from US EPA Region 3 dated 7 Dec 2012. This outfall receives drainage from the Meade Road contractor yard on post (north east of US Route 1). Then are two closed SWMU in the area that are a result of the area being a former coal storage yard. The SWMU have a No Further Action letter from US EPA Region 3 dated 7 Dec 2012. This outfall encompass an area where contractors are assigned lots for a laydown yard and general storage. The area has one roadway into it. There were yold asphalt under the area, but it is in disrepair in several areas. The drainage area includes equipment use of an old concrete settling basin.  3346 38.71606037 -77.15593735 Creek  UT to Accotlink 3345 38.71602098 -77.15593735 Creek  UT to Accotlink Contractor Lot 3345 4953 - landfill 3346 38.71602098 -77.15593735 Creek  UT to Accotlink Contractor Lot 3345 4953 - landfill		5242	38.735525	-77.155997	Dogue								
5280 38.736176 -77.156511 Creek  This outfall receives drainage from the Meade Road contractor yard on post (north east of US Route 1). There are two closed SWMU in the area that are a result of the area being a former coal storage yard. The SWMUh have a 'No Further Action' letter from US EPA Region of adaed 7 Dec 2012. This outfall encompases an area where contractors are assigned lots for a laydown yard and general storage. The area has one roadway into it. There every old asphalt under the area, but it is in disrepair in use of an old concrete settling basin.  Meade Rd Contractor Mead Road Storage Lot Contractor Lot 3345 4953 - landfill basin.  Mead Road Contractor Storage. The area has one roadway into it. There every old asphalt under the area, but it is in disrepair in use of an old concrete settling basin.  This outfall receives drainage from the Meade Road contractor yard on post (north east of US Route 1). There are two closed SWMU in the area that are a result of the area being a former coal storage yard. The SWMUh have a 'No Further Action' letter from US EPA Region of a dated of the area being a former coal storage yard. The SWMUh have a 'No Further Action' letter from US EPA Region of a dated of the area being a former coal storage yard. The SWMUh have a result of the area being a former coal storage yard. The SWMUh have a 'No Further Action' letter from US EPA Region of a dated of the area being a former coal storage area where contractors are assigned lots for a laydown yard and general storage. The area has one readway into it. There are two closed SWMU in the area that are a result of the area being a former coal storage area where contractors are assigned lots for a laydown yard and general storage area where contractors are assigned lots for a laydown yard and general storage area where contractors are assigned lots for a laydown yard and general storage area where contractors are assigned lots for a laydown yard and general storage area where contractors are assigned lots for a laydown yard		5274	38.735683	-77.156067	Dogue Creek								
contractor yard on post (north east of US Route 1). There are two closed SWMU in the area that are a result of the area being a former coal storage yard. The SWMU have a "No Further Action" letter from US EPA Region 3 dated 7 Dec 2012. This outfall encompases an area where contractors are assigned lots for a laydown yard and general storage. The area has one roadway into it. There very old asphalt under the area, but it is in disrepair in several areas. The drainage area includes equipment storage. The area has one roadway into it. There very old asphalt under the area, but it is in disrepair in several areas. The drainage area includes equipment storage, recycled crushed concrete, road millings and sea Contractor Lot Accotink  3346 38.71602098 -77.15633735 Creek  3348 38.71602098 -77.15590216 Creek		5280	38.736176	-77.156511	Dogue			i.					
Accotink 3346 38.71606037 -77.15633735 Creek UT to Accotink 3348 38.71602098 -77.15590216 Creek	025	7241	38* 42' 52"	-77° 9' 29"	Accotink Creek	Contractor	Mead Road		4953 - landfill	barriors silt fences and the use of an old concrete settling	contractor yard of are two closed S area being a form 'No Further Active Dec 2012. This contractors are a general storage, very old asphalt several areas. The storage, recycled	on post (north of WMU in the and mer coal storage on letter from l	east of US Route 1). There ea that are a result of the e yard. The SWMU have a US EPA Region 3 dated 7 is a laydown yard and ne roadway into it. There is a loud it is in disrepair in a loudule equipment.
3348 38.71602098 -77.15590216 Creek		3346	38 71606037	-77 15633735	Accotink								
				77.13000733	UT to								
1 33931 30 (1338)(45) a / (155 (2666))		3348 3345	38.71602098 38.71558143	-77.15590216 -77.15578666	Creek		ļ						

026	0376	38" 42' 8"	<b>38° 42' 8"</b> -77° 7' 50'	River	A08/A09 Markham School	026 (7246) A08 and A09 Closed Landfills at Markharn School	0584, 0377, 0350	4953 - landfill	N/A	The drainage sw between the tw A08 is fully vege vegetated plus of This outfall enco The areashave t	eives drainage from two closed landfills, wale into an intermittent stream runs vo closed landfills. The drainage area for etated. The drainage area for A09 is fully once section contains Markham School. ompases two closed landfills (not active), two cleared, non-paved dirt/gravel roads to the forthe personnel that are monitoring		
	0584	38.6995222	-77.13194417										
	0377	38.70255168	-77.13272125	Dogue Creek at confluenc e with Potomac River							į		
	0350	38.70335785	-77.13263492	Dogue Creek at confluenc e with Potomac River									
027	7245	<b>38°</b> 41′ 17″	-77* 9' 1"	UT to Accotink Bay	Theote Closed Landfill	027 (7245) A02 Theote Landfill	N/A (no other structure)	4953 - landfill	N/A	active). The dra majority of the landfi drains the landfi The entire landfi cleared, non-pay	inage swale reco andfill and direco ill and off site in ill is fully vegeta ved vegetated re	om a closed landfill (not eives flow from the its it into the pipe that to an intermittent stream, ted. The area has a oad that are present only toring the landfills only.	
028	4334	38° 43' 42"	-77° 8' 47"	Dogue	A06 Closed Landfill Bldg 2310 at Kingman & Woodlawn		4270, 4338, 4264, 5644, 4269, 5643	4953 - landfill 4911 - power generation	N/A	active). The drai majority of the landfi drains the landfi The entire landfi parking and sate pavement, gene	inage swale reco andfill and direc II and off site in III is fully vegeta Ilites. The area rators and satel	om a closed landfill (not eives flow from the tts it into the pipe that to an intermittent stream, ted with one facility with has a cleared section with lites with the rest of the ling to a un-named	

				UT to Dogue								
	4270	38.72784843	-77.14635735	_				1				
				UT to								
	4338	38.72749278	-77.14761506	Dogue							1	
<b> </b>	4338	36.72749278	-//.14/61506	UT to								
				Dogue		l .				· ·		
	4264	38.72544793	-77.14542126									
	ł			UT to Dogue								
	5644	38.7266882	-77.14465683	_								
				UT to				-			-	
	4269	38.72680245	-77.14422776	Dogue								
	4203	36.72080243	-77.14422776	UT to	-							
				Dogue		l						
ļ	5643	38.72693187	-77.14510275	Creek								
										This is a closed I	andfill that is al	long, Jeff Todd Way (old
		1								Mulligan Road).	This landfill is	still monitored by the
						029 (6004) A07						was a previous stormwater
					A07/A25 Closed	and A25						nat was enhanced by Federal The outfall for this landfill is
				Dogue	Landfill, Old	Mulligan Road						ond. The outlet for this
029	6004	38" 43' 45"	-77° 8' 27"	Creek Dogue	Mulligan Rd	Landfill	6007	4953 - landfill	Retention Pond	pond has a riser	structure whic	h discharges into a swale.
	6007	38.72815185	-77.14063662									
												long, Tulley Road adjacent
						1				to the Visitor Pr	cessing Center	r at Tulley Gate. This landfill
				UT to	A26 Pohick	030 (7244) A26						iation personnel. There are ainage swales. The outfall
					Rd/Tulley Gate	Pohick Road	N/A (no other					rainage swale meets the
030	7244	38° 41' 48"	-77° 9' 13"	Bay	Closed Landfill	Landfill (s)	structure)	4953 - landfill	N/A	stream (UT).		
												a large reflecting pool two
										tier pond. The p	ond does not o	discharge very often as it alue in the riser structure.
						l						rmwater flow from the
					NGA Reflecting							s and sidewalks, the parking
					Pool - Specific GPS Coordinates					garage and vario	us other paved	d trails and walking paths.
					are Classified.	031 (7240)		9511 - Air and Water	SW systems (storm drains),			is treated with a black dye and it is also treated with a
				Accotink	The one given is a	, ,	N/A (no other	Resource and Solid Waste	WW systems, spill plan and			aste product from
031	6438	38° 45' 15"		Creek		NGA Area Pond						

032	6207	38° 45' 0"	-77° 11' 45"		Classified. The	032 9 (N/A) Belvoir North NGA Area Pond Riser	6222, 6209	4911 - power generation 5541 - fueling station	SW systems (storm drains), WW systems, spill plan and BMPs in place.	discharge very of valve to close it position. This po- surrounding roa trails and walkin location is that was storage area and storage area has	ften through the off, but it is type and receives flood ways and side ag paths. The provision the drain it the facility mass a large concrecial gel filters the office of the state of the facility mass and selections are selected.	ond 8. The pond does not the riser structure. There is a sically left in the open with from the building, walks and various paved frimary concern for this age area is a large fuel intenance. The fuel the containment area that is nat react with petroleum to valve.
	6222	38.74944717	-77.19592382	Accotink Creek								
	6209	38.74966753	-77.19542669	Accotink Creek								

# Outfall 004 - Site Map Figure D-1 – Drainage Area / Topographic Map

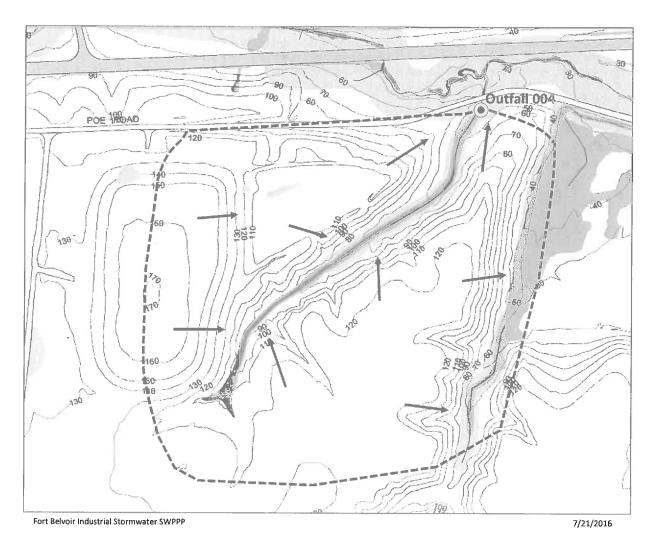


Figure D-1 is a topographic map of Outfall 004 – Belvoir Southwest Training drainage area (red dashed line). Map also illustrates the direction of stormwater flow (blue arrows).



#### **DEPARTMENT OF THE ARMY**

US ARMY INSTALLATION MANAGEMENT COMMAND
HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT BELVOIR
9820 FLAGLER ROAD, SUITE 213
FORT BELVOIR, VIRGINIA 22060-5928

REPLY TO ATTENTION OF

**IMBV-DPW** 

18 July 2016

MEMORANDUM FOR RECORD

SUBJECT: Permanent Closure of Industrial Stormwater Outfall 018

- 1. A stream restoration is currently being designed and implemented at the un-named perennial tributary to Gunston Cove, near the confluence of the Potomac River. On March 09, 2016 the U.S. Army Corps of Engineers provided advance drawings to this office for completing improvements to a section at the upper reaches of the stream system. Specifically the eastern section, that was adversely impacted by improperly placed drainage infrastructure. The work involved the permanent closure of Industrial Stormwater Outfall (ISW Outfall) 018.
  - a. The work included construction of a retaining wall, construction of a roadside stormwater channel, and the separation of the eastern drainage, comprised of stormwater conveyance (swale and culvert) from the westerly stream channel. ISW 018 was located at the outfall of the culvert on the western stream channel. The need for grouting of the stormwater culvert was identified by the U.S. Army Corps of Engineers, Baltimore District, Water Resources Branch staff. The separation of the flows will eliminate the overtopping of the stream channel over Totten Road which contributed to the associated erosion near ISW Outfall 019. Mr. Michael Hudson, expanded the area of repairs based on in the field observations to include areas further upstream of the stream restoration project area. The areas upstream included scour and displacement of existing riprap. The work in these areas included regarding of the stormwater conveyance and placement of class II riprap, instead of the previously existing class I riprap, continued throughout the stormwater conveyance to the downstream end of the improvements (enclosed drawings). The, on the drawings shown reinforced turf swale was not constructed as shown, but lined with class II riprap.
  - b. On July 13, 2016, the stormwater culvert that includes ISW Outfall 018, was grouted shut. On July 14, 2016, the swale was constructed and class II riprap was placed in the newly constructed stormwater conveyance. This work eliminated the crossing of stormwater flows into the stream located on the west side of Totten Road and, therefore, eliminated ISW Outfall 18. The flows that were previously sampled at this outfall will now be sampled at ISW 019, where a junction box will be installed when the full stream restoration commences. In the meantime, the flows discharge at the location of the new junction box and the culvert outfall at ISW Outfall 019.

SYBILLE R. VEGA Industrial Stormwater & TMDL Program Manager

"LEADERS IN EXCELLENCE"

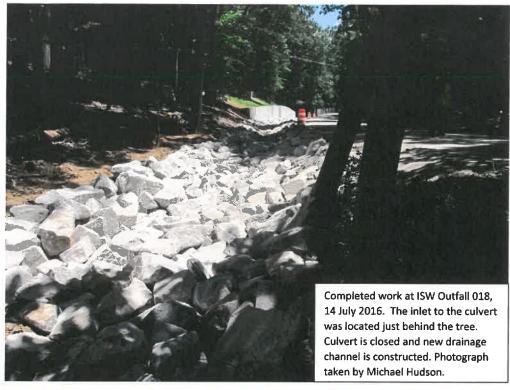
#### Permanent Closure of Industrial Stormwater Outfall 018 - Photo Log



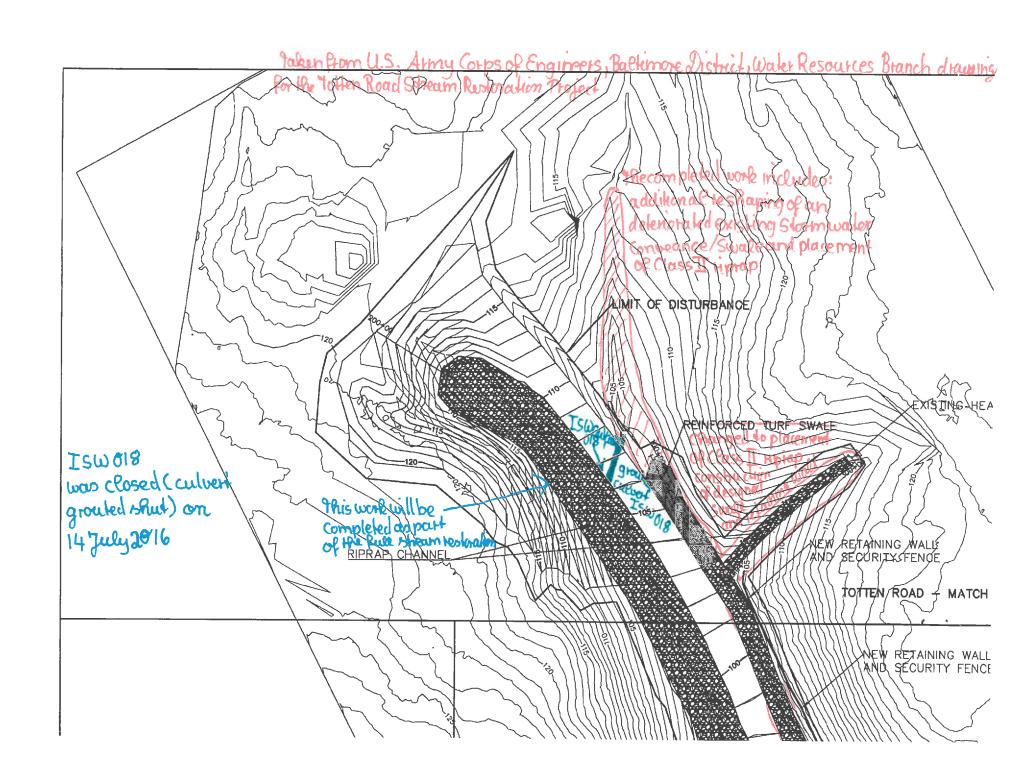


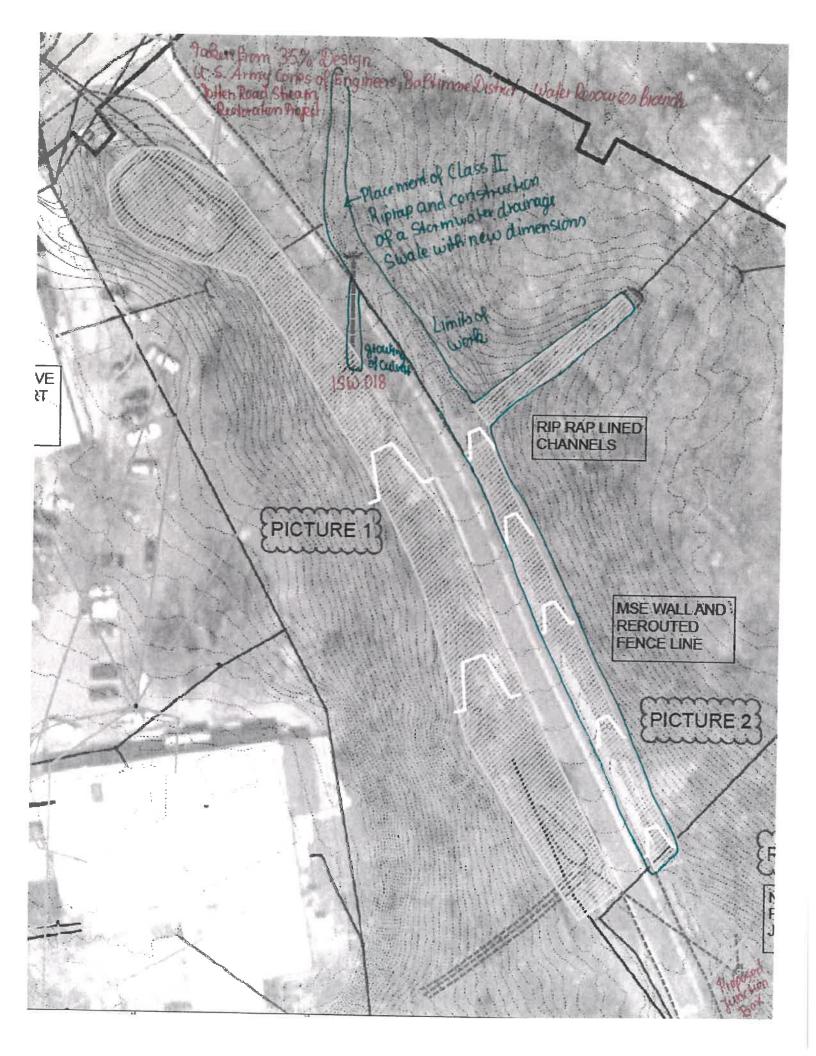












#### PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9VAC25-31-290.C.2.

Agent/Department to be billed:	Directorate of Public Works
Owner:	U.S. Army Garrison, Fort Belvoir
Applicant's Address:	9430 Jackson Loop
	Fort Belvoir, VA 22060-5116
Agent's Telephone Number:	703-806-0627
Technical Agent:	VEGA.SYBILLE.R Doptally signed by VEGA.SYBILLER 1131884900 DN cauls, Daily Government, coul-Doil, out-PNI, out-VEGA.SYBILLER 1131884890 Date: 2016.09 19 10:55:24-041007 Signature (Sybille Vega)
Financial Point of Contact:	GRENFELL.JOHN.P.  Digitally uspeed by CRENTELL.JOHN P. 108A6022158  Digitally uspeed by CRENTELL.JOHN P. 108A6022158  Digitally uspeed by CRENTELL.JOHN P. 108A6022158  Date 2016.09.19.11.1404-04000  Signature(John Grenfell)

Documentation must be submitted to Ms. Vega at least at least two weeks prior to submission for newspaper. Cost cannot exceed \$2,500.00. VPDES Permit No. VA0092771; Facility Name: U.S. Army Garrison - Fort Belvoir

Please return to:

Susan Mackert VA-DEQ, NRO 13901 Crown Court Woodbridge, VA 22193-1453 Fax: (703) 583-3821



**DEPARTMENT OF THE ARMY** 

US ARMY INSTALLATION MANAGEMENT COMMAND HEADQUARTERS, UNITED STATES ARMY GARRISON, FORT BELVOIR 9820 FLAGLER ROAD, SUITE 213 FORT BELVOIR, VIRGINIA 22060-5928

REPLY TO ATTENTION OF

MAR 1 4 2014

Directorate of Public Works

SUBJECT: Virginia Pollutant Discharge Elimination System (VPDES) Stormwater Major

NORTHERN

REGIONAL OFFICE

Permit Application - Revised, Fort Belvoir, Virginia

Ms. Susan Mackert Virginia Department of Environmental Quality Northern Regional Office 13901 Crown Court Woodbridge, Virginia 22193

Dear Ms. Mackert:

Enclosed is US Army Garrison Fort Belvoir's VPDES Stormwater Major Permit Application for the installation. The enclosed application was revised to include outfall changes and the addition of new outfalls as per the January 28, 2014 letter from Virginia Department of Environmental Quality (VADEQ) Woodbridge Office. The revised permit application is submitted with outfall changes and additional outfalls but without the stormwater analytical data for Outfall's 003, 006, 010, 011, 017, 022, and 025-031. Such data will be submitted to VADEQ after a qualifying rain event occurs at Fort Belvoir.

Also as requested, a completed copy of the VADEQ Public Notice Billing Information Form is also included with this submission.

The point of contact is Bill Sanders, Director of Public Works, at 703-806-3017.

Sincerely,

Gregory D. Gadson Colonel, U.S. Army

Commanding

Enclosures

#### PUBLIC NOTICE BILLING INFORMATION

I hereby authorize the Department of Environmental Quality to have the cost of publishing a public notice billed to the Agent/Department shown below. The public notice will be published once a week for two consecutive weeks in accordance with 9VA 25-31-290.C.2.

Agent/Department to be billed:	Directorate of Public Works
Owner:	US Army Garrison, Fort Belvoir
Applicant's Address:	9430 Jackson Loop
	Fort Belvoir, VA 22060-5116
Agent's Telephone Number:	703-805-3971
Technical Agent:	<u> Wilamena Hallsack</u> Signature (Wilamena Harback)
Financial Point of Contact:	(Stur BAS) Signature (Stacy Bass)

Documentation must be submitted to Ms. Harback at least two weeks prior to submission for newspaper. Cost cannot exceed \$2,500.00.

VPDES Permit No. VA0092771

Facility Name: U.S. Army Garrison - Fort Belvoir

Please return to:

Susan Mackert VA-DEQ, NRO 13901 Crown Court Woodbridge, VA 22193-1453

Fax: (703) 583-3821

## APPLICATION FOR PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY



## U.S. ARMY GARRISON FORT BELVOIR, VIRGINIA

## MAY 2013 Revised February 2014

U.S. Army Garrison Fort Belvoir, Virginia



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#### **List of Acronyms**

AAFES Army and Air Force Exchange Service

AST Aboveground Storage Tank

BMP Best Management Practice

BTEX Benzene, Toluene, Ethylbenzene, and Xylenes

DAAF Davison Army Airfield
DLA Defense Logistics Agency
DPW Department of Public Works

EG Ethylene Glycol

ENRD Environmental and Natural Resources Division

EPA U.S. Environmental Protection Agency

FBNA Fort Belvoir North Area

ft Feet

GIS Geographic Information System

HAZMATS Hazardous Materials

ISS Installation Services Support

MDA Missile Defense Agency mg/kg Milligrams Per Kilogram

MOGAS Motor Gasoline

NPDES National Pollutant Discharge Elimination System

OWS Oil/Water Separator

P2 Pollution Prevention

RSL Regional Screening Level

SIC Standard Industrial Classification

SW Stormwater

SWPPP Stormwater Pollution Prevention Plan

TPH-DRO Total Petroleum Hydrocarbons - Diesel Range Organics

UST Underground Storage Tank

VDCR Virginia Department of Conservation and Recreation

VDEQ Virginia Department of Environmental Quality

VOC Volatile Organic Contaminant

VPDES Virginia Pollutant Discharge Elimination System

WW Wastewater

# EPA FORM 3510-1 GENERAL INFORMATION

SPECIFIC QUESTIONS	TES	NU	ATTACHED	SPECIFIC QUESTIONS	152	NU	ATTACHED
results in a discharge to waters of the U.S.? (FORM 2A)   X   include a concentrated animal feeding operation of				B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.? (FORM 2B)	1Đ	× 20	21
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above? (FORM 2C)	22	X	24	D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.? (FORM 2D)	25	×	27
E. Does or will this facility treat, store, or dispose of hazardous wastes? (FORM 3)		×		F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water? (FORM 4)		×	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons? (FORM 4)	34	× 35	30 36	H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossif fuel, or recovery of geothermal energy? (FORM 4)	37	32	33
Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)		×	42	J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area? (FORM 5)	43	X	45
III. NAME OF FACILITY  C SKIP U.S. ARMY GARRISON - FORT	BEL	VOI	R R		59		
IV. FACILITY CONTACT					99	_	
A. NAME & TITLE (last		A .2.2.1		D DUONE /			
gadson, gregory D., Colonel		T T		B. PHONE (area code & no.) (703) 806-3017			
15 16				45 43 48 43 51 52- 5	5		
V.FACILTY MAILING ADDRESS				,			
A. STREET OR P			ТТ	<del></del>			
15 16				45			
B. CITY OR TOWN  G FORT BELVOIR	T	ПТ		C. STATE D. ZIP CODE  VA 22060  49 41 42 47 51			
VI. FACILITY LOCATION				40 41 42 47 51			
A. STREET, ROUTE NO. OR OTHE	D 000	CIEIC	IDENTIFIE	D			
		T	IDENTIFIE				
5 u.s. koute i (Richmond Highway	} '						
15 16		•		45			
B. COUNTY FAIRFAX	/ NAME	<u> </u>					
C. CITY OR TOWN				D. STATE   E. ZIP CODE   F. COUNTY CO	DE /:	f know	) T
6 FORT BELVOIR				VA 22060 7.55501145	100	, AJIUNI	<u>""</u>
15 16				40 41 42 47 51 52			

CONTINUED FROM THE FRONT
VII. SIC CODES (4-digit, in order of priority)  A. FIRST  B. SECOND
7 9711 (specify) 7 8731 (specify) 7 8731 Commercial Physical/Biological Research
C. THRD  D. FOURTH
(specify) c   (specify)
15 16 19
VIII. OPERATOR INFORMATION  A. NAME  B. Is the name listed in Item
8 U.S. ARMY GARRISON - FORT BELVOIR IZ YES NO
15 16 SS ⊗ STATUS OF OPERATOR (Enser the appropriate letter into the answer box: if "Other," specify.) D. PHONE (area code & no.)
F = FEDERAL (specify)
S = STATE $O = OTHER$ (specify)  M = PUBLIC (other than federal or state) F  A (703) 805-3971
56 [15   6 - 18   19 - 21 ] 22 -
9430 JACKSON LOOP
20 55
F. CITY OR TOWN G. STATE H. ZIP CODE IX. INDIAN LAND
B FORT BELVOIR VA 22060 YES Z NO
TS ITS 40 41 42 47 51 TS X. EXISTING ENVIRONMENTAL PERMITS
A. NPDES (Discharges to Surface Water)  D. PSD (Air Emissions from Proposed Sources)
9 N SEE ATTACHMENT I-X 9 P SEE ATTACHMENT I-X
15 16 17 18 30 15 16 17 16 30
B. UIC (Underground Injection of Fluids)  E. OTHER (specify)  E. OTHER (specify)  SEE ATTACHMENT I - X  SEE ATTACHMENT I - X  SEE ATTACHMENT I - X
9 U SEE ATTACHMENT 1-A 9 SEE ATTACHMENT 1-A 30 15 16 17 16 30 15 16 17 16 30
C. RCRA (Hazardous Wastes)  E. OTHER (specify)
9 R SEE ATTACHMENT I -X 9 (specify)
TS 10 17 15 30 15 16 17 18 36 XI. MAP
Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the
location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where injects fluids underground. Include all springs, rivers, and other surface water bodies in the map area. See instructions for precise requirements.
XII. NATURE OF BUSINESS (provide a brief description)
Fort Belvoir is a U.S. Army installation whose mission is to provide logistical, intelligence and administrative support to a diverse mix of commands, activities and agencies.
Fort Belvoir houses tenants from each of the military forces, as well as such Department of Defense agencies as
the Army Management Staff College, the Defense Logistics Agency, the Missile Defense Agency and the Defense Acquisition University. It is a broadly based community functioning in many ways like a small city, with its
own ordinances, land use plan, building codes, utilities, public parks, hospital complex and operations, airfield, and academic institutions.
XIII. CERTIFICATION (see instructions)
I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on make inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate, and complete, am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.
A. NAME & OFFICIAL TITLE (type or print)  B. STANATURE  C. DATE SIGNED
COLONEL GREGORY D. GADSON Key N. Roupe (Deput) 3/13/2014
COMMENTS FOR OFFICIAL USE ONLY

# ATTACHMENT I-X EXISTING ENVIRONMENTAL PERMITS

Program Area Permit		Permit Number	Notes		
NR - Wildlife	Salvage Permit	#039296	Allows for salvage of non-game species by permit holder through VA DGIF.		
NR - Wetland Infastructure Roads		VWP IP 09- 0151	VADEQ Wetlands Permit, issued 20 July 2011.		
NR - Wetland	Main Post Infastructure Roads	NAB-2009- 00359	USACE Wetlands Permit issued on 13 July 2009 and 12 September 2011.		
NR - Wetland	Theote Road Sanitary Sewer Force Main	NAB-2010- 000091	USACE Wetlands Permit issued on 21 May 2010.		
NR - Wetland   Farrar Road   0083 Bridge DAAF   #		NAB-2010- 00836 VMRC # 10-0846 DEQ-NPR	USACE, VMRC and VADEQ permits.		
NR - Wetland Fort Belvoir PX Shopping Center		NAB-2011- 02599	USACE Wetlands Permit, issued 23 September 2011.		
NR - Wetland Fort Belvoir PX Shopping Center		WP4-11-1052	VWP General Permit (VADEQ) issued on 8 September 2011.		
NR - Wetland Poe Road Bridge Repair		NAB-2010- 01816	USACE Wetlands Permit issued on 31 August 2010.		
INR - Wetland I		VMRC # 10- 1223	VMRC Permit issued on 28 September 2010.		
Army Garrison Fort Belvoir / Watermain Installation & Culvert Replacement		NAB-2011- 03323	USACE Wetlands Permit issued on 31 October 2011.		
Fort Belvoir /Emergency NAB-		NAB-2011- 03051	USACE Wetland Permit. Request has already been sent to close out this permit.		
NR - Wetland	Fort Belvoir Building 324 Upper Parking Lot Expansion	NAB-2012- 00504	USACE Wetlands Permit issued on 16 March 2012.		

Program Area	rogram Area Permit Pe		Notes
NR - Wetland	Fort Belvoir Building 324 Upper Parking Lot Expansion	DEQ-NPR	VADEQ Wetlands Permit, issued on 27 February 2012.
NR - Wetland	Meade Road Stream	NAB 2012- 00891	This site is requesting a nationwide 27 permit, and once received will have a USACE permit number and VADEQ permit number. Official permit has not been issued yet.
NR - Wetland	BEBO Arch Repair - Bank Stabilization	Working for FY12/FY13	This site is requesting a nationwide permit, and once received will have a USACE permit number and VADEQ permit number.
NR - Industrial Stormwater	Industrial Stormwater General Permit DAAF	VAR051080	Industrial Stormwater General Permit for coverage of industrial stormwater discharges associated with DAAF and airfield operations.
NR - MS4	Municipal Separate Storm Sewer Phase II General Permit	VAR040093	MS4 Phase II General Permit coverage with VADCR.
NR - Pesticide	Permit-by-Rule (PBR) Pesticide Application Permit	VAG87	VADEQ PBR Permit for application of pesticides (general permit).
EC - Drinking Water	Fort Belvoir North Area (BNA) Waterworks	6059455	VA Department of Health Waterworks (drinking water) permit for consumption of drinking water at BNA.
EC - Drinking Water	Fort Belvoir Woodlawn Waterworks	6059460	VA Department of Health Waterworks (drinking water) permit for consumption of drinking water at Woodlawn.
EC - Air	Stationary Source Permit to Construct and Operate - Mark Center	DEQ # NRO- 224-10	Stationary Source Permit for the Washington Headquarters Service (Mark Center) in Alexandria, VA.
EC - Air	Stationary Source Permit to Construct and Operate - EPG/NGA	DEQ # NRO- 113-008	Stationary Source Permit for the National Geospatial-Intelligence Agency (NGA on old EPG area) in Belvoir North Area.

Program Area	Program Area Permit		Notes
EC - Air	Stationary Source to Modify and Operate	DEQ # NRO- 041-11	Stationary Source Permit for Fort Belvoir, new source review permit.
EC - Air	Stationary Source Permit to Construct and Operate	DEQ # NRO- 280-08	Fort Belvoir Dual-Phase Vapor Extraction System (Building 1124).
EC - Air	Stationary Source Permit to Construct and Operate	DEQ # NVRO- 191-06	Fort Belvoir Soil Vapor Extraction System (Building 1197).
EC - Air	Title V Operating Permit		
EC - Air	Stationary Source Permit to Construct and Operate	No Associted Number	Fort Belvoir Rivanna Station.
EC - Petroleum	General Permit Regulation for Discharges From Petroleum Contaminated Sites, Groundwater Remediation and Hydrostatic Tests	VAG830400	This VADEQ General permit is for discharges from a petroleum contaminated site from a new remediation system (dualphase extraction system) at Building 2291 (former Buildings 2209/2217). Monitoring requirements are in compliance with the permit.
EC - Petroleum	General Permit Regulation for Discharges From Petroleum Contaminated Sites, Groundwater Remediation and Hydrostatic Tests	VAG830206	This VADEQ General permit is for discharges from a petroleum contaminated site from a new remediation system (dualphase extraction system) at building 1124. Monitoring requirements are in compliance with the permit.

Program Area Permit		Permit Number	Notes
EC - Petroleum	General Permit Regulation for Discharges From Petroleum Contaminated Sites, Groundwater Remediation and Hydrostatic Tests	VAG830091	This VADEQ General permit is for discharges from a petroleum contaminated site from a new remediation system (dualphase extraction system) at Building 3161. Monitoring requirements are in compliance with the permit.
EC - Hazardous Waste	Hazardous Waste Storage Permit (Building 1490)	VA7213720082	VADEQ one year long term hazardous waste storage site at Building 1490.
EC - Landfills	Permit-by-Rule (PBR) Landfill Permit	PBR # 164	VADEQ PBR Permit for DeWitt Steam Sterilizer Solid Waste Permit.
EC - Landfills	Permit-by-Rule (PBR) Landfill Permit	PBR # 490	VADEQ PBR Permit for Theote Road Closed Landfill Solid Waste Permit.
EC - Landfills	Permit-by-Rule (PBR) Landfill Permit	PBR # 308	VADEQ PBR Permit for Cullum Woods Closed Landfill.

# EPA FORM 3510-2F APPLICATION FOR PERMIT TO DISCHARGE STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY

D. Receiving Water

(name)

2F SEP

**Outfall Location** 

(list)

SEE ATT, 2F-I "REP.

U.S. Environmental Protection Agency Washington, DC 20460

## Application for Permit to Discharge Storm Water Discharges Associated with Industrial Activity

#### **Paperwork Reduction Act Notice**

Public reporting burden for this application is estimated to average 28.6 hours per application, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate, any other aspect of this collection of information, or suggestions for improving this form, including suggestions which may increase or reduce this burden to: Chief, Information Policy Branch, PM-223, U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, NW, Washington, DC 20460, or Director, Office of Information and Regulatory Affairs, Office of Management and Budget, Washington, DC 20503.

C. Longitude

For each outfall, list the latitude and longitude of its location to the nearest 15 seconds and the name of the receiving water.

OUTFALL LOCATIONS"									
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II. Improvements	L			<b>-</b>					
treatment equipm	ent or practic	ces or any other	er environme	ental program:	s which may a	affect the disc	chedule for the construction, upgrading on tharges described in this application? This ters, stipulations, court orders, and grant of	includes, but is or loan condition	s not limited ns.
Identification of	Conditions.		2. Affec	cted Outfalls					Final Ince Date
Agreements			Brief Description of Project		a. req.	b. proj.			
SEE ATTACHMENT 2F-II									
"IMPROVEMENTS"									
			<u> </u>						
B: You may attach ac way or which you	lditional shee plan, Indicate	ets describing a e whether each	any additiona program is	al water pollut now under w	tion (or other ay or planned	environmenta I, and indicate	I projects which may affect your discharge your actual or planned schedules for con-	s) you now hav	ve under

#### III. Site Drainage Map

IV. Narrative Description of Pollutant Source	٧. ا	Narrative	Description	of Pol	lutant	Source	s
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A. For each outfall, provide an estimate of the area (include units	of imperious surfaces (including paved areas and building roofs	drained to the outfall, and an estimate of the total surface area
drained by the outfall.	•	

Outfail Number	Area of Impervious Surface (provide units)	Total Area Drained (provide units)	Outfall Number	Area of Impervious Surface (provide units)	Total Area Orained (provide units)
	SEE ATTACHMENT 2F-IVA "REPRESENTATIVE OUTFALL DRAINAGE AREA TABLE"				

B. Provide a narrative description of significant materials that are currently or in the past three years have been treated, stored or disposed in a manner to allow exposure to storm water; method of treatment, storage, or disposal; past and present materials management practices employed to minimize contact by these materials with storm water runoff; materials loading and access areas, and the location, manner, and frequency in which pesticides, herbicides, soil conditioners, and fertilizers are applied.

SEE ATTACHMENT 2F-IVB "SIGNIFICANT MATERIALS," 2F-IVB-1 "GENERALIZED SIGNIFICANT MATERIALS," 2F-IVB-2 "MATERIALS LOADING/ACCESS ARBAS," AND 2F-IVB-3 "HERBICIDES, PESTICIDES, SOIL CONDITIONERS, FERTILIZERS."

C. For each outfall, provide the location and a description of existing structural and nonstructural control measures to reduce pollutants in storm water runoff; and a description of the treatment the storm water receives, including the schedule and type of maintenance for control and treatment measures and the ultimate disposal of any solid or fluid wastes other than by discharge.

Outfall Number	Treatment	List Codes from Table 2F-1
	SEE ATTACHMENT 2F-IVC-1 "STRUCTURAL CONTROL MEASURES," 2F-IVC-2 "NON-STRUCTURAL CONTROL MEASURES," AND 2F-IVC-3 "STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES BY DRAINAGE AREA."	SEE ATT. 2F-IVC-3 "STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES BY DRAINAGE AREA."

#### V. Nonstormwater Discharges

A. I certify under penalty of law hat the outfall(s) covered by this application have been tested or evaluated for the presence of nonstormwater	discharges	and that all
the presence of nonstantial and advantage of the presence of nonstantial and the presence of t	uiscilaryes,	and that an
constamwater discharged from these outfall(s) are identified in either an accompanying Form 2C or From 2E application for the outfall		

Name and Official Title (type or print)

COLONEL GREGORY D. GADSON

Stold Book (Desuty)

Date Signed

3/13/2014

B. Provide a description of the method used, the date of any testing, and the onsite drainage points that were directly observed during a test.

In August 2010, a comprehensive survey of industrial stormwater and wastewater systems was performed to determine existing industrial activities occuring at Fort Belvoir and their potential impacts on stormwater and wastewater systems. This survey included inspection and identification of outfalls containing non-stormwater discharges. Additionally, in January 2012, a survey of the entire MS4 system at Fort Belvoir was performed, which included an inventory of all stormwater structures. The condition of each structure was also noted. SEE ATTACHMENT 2F-VB, "RECORD OF NON-STORMWATER DISCHARGES"

#### VI. Significant Leaks or Spills

Provide existing information regarding the history of significant leaks or spills of toxic or hazardous pollutants at the facility in the last three years, including the approximate date and location of the spill or leak, and the type and amount of material released.

SEE ATTACHMENT 2F-VI, "SIGNIFICANT LEAKS OR SPILLS"

## Continued from Page 2

VII. Discharge Information							
A, B, C, & D: See instructions before proceeding. Complete one set of tables for each outfall. Annotate the outfall number in the space provided.  Table VII-A, VII-B, VII-C are included on separate sheets numbers VII-1 and VII-2.							
E. Potential discharges not covered by analysis – is any toxic pollutant listed in table 2F-2, 2F-3, or 2F-4, a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?							
Yes (list all such pollutants b	elow)		No (go to Section IX)				
FOR PARTS A-D, SEE ATTACHMENTS 2	F-VIIA THROUGH 2F-VIID, "DISCHARGE IN	FORMATI	ON TABLES" FOR EACH O	UTFALL.			
FOR PART E, THE PERMITTEE REQUESTIVE SIZE AND DIVERSE OPERATIONS	TS THAT THE DIRECTOR WAIVE OR MODIFY AT FT. BELVOIR.	THE REC	UIREMENT AS IT WOULD	BE UNDULY BURDENSOME DUE TO			
VIII. Biological Toxicity Testing D	***************************************						
Do you have any knowledge or reason to be relation to your discharge within the last 3 y	pelieve that any biological test for acute or chronic years?	toxicity h	as been made on any of you	r discharges or on a receiving water in			
Yes (list all such pollutants be			✓ No (go to Section IX)	**************************************			
	NII performed by a contract laboratory or consulting	g firm?	No (go to Section X)				
analyzed by, each such l	aboratory or firm below)			D. Collegents Analyzed			
A. Name	B. Address		C. Area Code & Phone No.	D. Pollutants Analyzed			
QC LABORATORIES DELAWARE, FORMERLY KNOWN AS ATLANTIC COAST LABORATORIES, INC.	272 QUIGLEY BLVD, NEW CASTLE DELAWARE, 19712	30:	2-266-9121	SEE ATTACHMENT 2F-IX, "QCL CERTIFICATION AND SAMPLE ANALYSIS CONTRACT"			
X. Certification				1			
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.							
A. Name & Official Title (Type Or Print)  OLONEL GREGORY D. GADSON			a Code and Phone No. 3) 806-3017				
C. Signature Sullahi Run	per (Deputy)	D. Dat	e Signed 7/13/2014				

#### VII. Discharge information (Continued from page 3 of Form 2F)

ii. Discharge	Information (Co	กซกน	ea rrom pag	e s or rorm zi	7)			
Part A – You must	provide the results of	at least	one analysis for	every pollutant in	this table. Complete one	table for each o	utfall. See instructions for additional details.	
	Maxim	um Valu	les	Ave	erage Values clude units)	Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes		ow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	SEE ATTACHMENT 28	F-VIIA	N/A					
Biological Oxygen Demand (BOD5)	1							
Chemical Oxygen Demand (COD)								
Total Suspended Solids (TSS)								
Total Nitrogen								
Total Phosphorus								
ρН	Minimum	Maximi	um	Minimum	Maximum			
waste	ach pollutant that is water (if the facility is ements.	limited in operat	n an effluent gu ing under an ex	ideline which the t isting NPDES pen	facility is subject to or a mit). Complete one table	ny pollutant liste a for each outfa	ed in the facility's NPDES permit for its process II. See the instructions for additional details and	
		um Valu ide units		Ave (in	erage Values eclude units)	Number		
Pollutant	Grab Sample			Grab Sample		of		
апd CAS Number	Taken During First 20	E14	w-Weighted	Taken During First 20	Flow-Weighted	Storm Events		
(if available)	Minutes		Composite	Minutes	Composite	Sampled	Sources of Pollutants	
SEE ATTACHMENT 2F-	VIIB							
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Part C - List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe is present. See the instructions for additional details and requirements. Complete one table for each outfall.

		Maximum Values (include units)		erage Values clude units)		Number		
Pollutant and CAS Number (if available)	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	Grab Sample Taken During First 20 Minutes	Flow-Weighted Composite	of Storm Events Sampled		So	urces of Pollutants
SEE ATTACHM	ENT 2F-VIIC							
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Part D - Pro	ovide data for the sto	rm event(s) which resu	ilted in the maximi	um values for the flow we	ighted -	composite s	sample.	
1. Date of Storm	2. Duration of Storm Event	3. Total rain during storm	nfall	4. Number of hours between the second process of the second proces	een sured	Maximum ra	5. flow rate during in event ns/minute or	6. Total flow from rain event
Event	(in minutes)	(in inche		measurable rain ever	nt	spe	cify units)	(gallons or specify units)
SEE ATTACHM	ENT 2F-VIID				;			
		thod of flow						

7. Provide a description of the method of flow measurement or estimate.

Flow measurements were generated using a maximum flow estimation, assuming a uniform drainage runoff rate. As all sampling events were of small volume (<1.00 in), runoff was calculated using the "Small Storm Hydrology Method" (Pitt 2003), which relates an absorption coefficient with the level of imperviousness of the surface. Each event was sampled from the first flush, and samples collected for at least 180 minutes, estimated. As the representative outfalls were chosen with limited alternate potential drainage paths, maximum flow was determined by dividing the total rainfall over the drainage area, adjusted for absorption, over the duration of the sampling event.

## Table 2F-1 Codes for Treatment Units

#### **Physical Treatment Processes**

1-A 1-B 1-C 1-E 1-F 1-H 1-1 1-K 1-L	Ammonia Stripping Dialysis Diatomaceous Earth Filtration Distillation Electrodialysis Evaporation Flocculation Flotation Foam Fractionation Freezing Gas-Phase Separation Grinding (Comminutors)	1-M 1-N 1-0 1-P 1-Q 1-R 1-S 1-T 1-U 1-V 1-W 1-X	Grit Removal Microstraining Mixing Moving Bed Filters Multimedia Filtration Rapid Sand Filtration Reverse Osmosis (Hyperfiltration) Screening Sedimentation (Setting) Slow Sand Filtration Solvent Extraction Sorption
	Chemical Treatment F		,
2-A 2-B 2-C 2-D 2-E 2-F	Carbon Adsorption Chemical Oxidation Chemical Precipitation Coagulation Dechlorination Disinfection (Chlorine)	2-G 2-H 2-I 2-J 2-K 2-L	Disinfection (Ozone) Disinfection (Other) Electrochemical Treatment Ion Exchange Neutralization Reduction
	Biological Treatment	Processe:	S
3-A 3-B 3-C 3-D	Activated Sludge Aerated Lagoons Anaerobic Treatment Nitrification-Denitrification	3-E 3-F 3-G 3-H	Pre-Aeration Spray Irrigation/Land Application Stabilization Ponds Trickling Filtration
	Other Process	es	
4-A 4-B	Discharge to Surface Water Ocean Discharge Through Outfall	4-C 4-D	Reuse/Recycle of Treated Effluent Underground Injection
	Sludge Treatment and Disp	osal Proc	esses
5-A 5-B 5-C D 5-E 5-G 5-I 5-J-K 5-5-S	Aerobic Digestion Anaerobic Digestion Belt Filtration Centrifugation Chemical Conditioning Chlorine Treatment Composting Drying Beds Elutriation Flotation Thickening Freezing Gravity Thickening	5-M 5-N 5-O 5-P 5-O 5-R 5-S 5-T 5-V 5-W	Heat Drying Heat Treatment Incineration Land Application Landfill Pressure Filtration Pyrolysis Sludge Lagoons Vacuum Filtration Vibration Wet Oxidation

#### Table 2F-2

#### **Conventional and Nonconventional Pollutants**

Bromide
Chlorine, Total Residual
Color
Fecal Coliform
Fluoride
Nitrate-Nitrite
Nitrogen, Total Organic
Oil and Grease
Phosphorus, Total
Radioactivity
Sulfate
Sulfite
Surfactants
Aluminum, Total
Barium, Total
Boron, Total
Cobalt Total
Iron, Total
Magnesium, Total
Magnesium, Total
Manganese, Total
Tin, Total
Titanium, Total

#### Table 2F-3

#### **Toxic Pollutants**

#### Toxic Pollutants and Total Phenol

Antimony, Total	Copper, Total	Silver, Total
Arsenic, Total	Lead, Total	Thallium, Total
Beryllium, Total	Mercury, Total	Zinc, Total
Cadmium, Total	Nickel, Total	Cyanide, Total
Chromium, Total	Selenium, Total	Phenols, Total

#### **GC/MS Fraction Volatiles Compounds**

Acrolein Acrylonitrile Benzene Bromoform Carbon Tetrachloride Chlorobenzene Chlorodibromomethane	Dichlorobromomethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethylene 1,2-Dichloropropane 1.3-Dichloropropylene Ethylbene	1,1,2,2,-Tetrachloroethane Tetrachloroethylene Toluene 1,2-Trans-Dichloroethylene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethylene
Chlorodibromomethane Chloroethane 2-Chloroethylvinyl Ether Chloroform	Ethylbenzene Methyl Bromide Methyl Chloride Methylene Chloride	Trichloroethylene Vinyl Chloride

#### **Acid Compounds**

2-Chlorophenol	2,4-Dinitrophenol	Pentachlorophenol
2,4-Dichlorophenol	2-Nitrophenol	Phenol
2,4-Dimethylphenol	4-Nitrophenol	2,4,6-Trichlorophenol
4,6-Dinitro-O-Cresol	p-Chloro-M-Cresol	2-methyl-4,6 dinitrophenol

#### Base/Neutral

Acenaphthene Acenaphthylene Anthracene Benzidine Benzo(a)anthracene Benzo(a)pyrene 3,4-Benzofluoranthene Benzo(ghi)perylene Benzo(k)fluoranthene Bis(2-chloroethoxy)methane Bis(2-chloroethyl)ether Bis(2-chloroisopropyl)ether Bis(2-ethylyhexyl)phthalate	2-Chloronaphthalene 4-Chlorophenyl Phenyl Ether Chrysene Dibenzo(a,h)anthracene 1,2-Dichlorobenzene 1,3-Dichlorobenzene 1,4-Dichlorobenzidine Diethyl Phthalate Dimethyl Phthalate Di-N-Butyl Phthalate 2,4-Dinitrotoluene 2,6-Dinitrotoluene	Fluroranthene Fluorene Hexachlorobenzene Hexachlorobutadiene Hexachloroethane Indeno(1,2,3-cd)pyrene Isophorone Napthalene Nitrobenzene N-Nitrosodimethylamine N-Nitrosodiphenylamine Phenanthrene
4-Bromophenyl Phenyl Ether Butylbenzyl Phthalate	Di-N-Octyphthalate 1,2-Diphenylhydrazine (as Azobenzene)	Pyrene 1,2,4-Trichlorobenzene

#### Pesticides

Aldrin	Dieldrin	PCB-1254
Alpha-BHC	Alpha-Endosulfan	PCB-1221
Beta-BHC	Beta-Endosulfan	PCB-1232
Gamma-BHC	Endosulfan Sulfate	PCB-1248
Delta-BHC	Endrin	PGB-1260
Chlordane	Endrin Aldehyde	PCB-1016
4,4'-DDT	Heptachlor	Toxaphene
4.4'-DDE	Heptachlor Epoxide	

PCB-1242

#### Table 2F-4

#### **Hazardous Substances**

#### Toxic Pollutant

#### Asbestos

#### **Hazardous Substances**

Acetaldehyde Allyl alcohol Allyl chloride Amyl acetate Aniline Benzonitrile Benzyl chloride Butyl acetate Butylamine Carbaryl Carbofuran Carbon disulfide Chlorpyrifos Coumaphos

Cresol Crotonaldehyde

Cyclohexane 2,4-D (2,4-Dichlorophenoxyacetic acid) Diazinon Dicamba

Dichlobenil Dichlone

2,2-Dichloropropionic acid

Dichlorvos Diethyl amine Dimethyl amine

Dinitrobenzene Diquat Disulfoton Diuron Epichlorohydrin Ethion Ethylene diamine Ethylene dibromide Formaldehyde Furfural Guthion Isoprene Isopropanolamine

Kelthane

Kepone Malathion

Mercaptodimethur Methoxychlor

Methyl mercaptan Methyl methacrylate Methyl parathion Mevinohos Mexacarbate Monoethyl amine Monomethyl amine

Naled

Napthenic acid Nitrotoluene Parathion Phenolsulfonate Phosgene Propargite Propylene oxide **Pyrethrins** Quinoline Resorcinol Stronthium Strychnine Styrene

2,4,5-T (2,4,5-Trichlorophenoxyacetic

TDE (Tetrachlorodiphenyl ethane) 2,4,5-TP [2-(2,4,5-Trichlorophenoxy)

propanoic acid] Trichlorofan Triethylamine

Trimethylamine Uranium Vanadium Vinyl acetate **Xvlene** Xylenol Zirconium

# ATTACHMENT 2F-I: REPRESENTATIVE OUTFALL LOCATIONS

Table 3510-2F-I: Representative Outfall Locations

A. Representative Outfall ID	В.	Latitu	de	C. Longitude		ude	D. Receiving Water
001	38°	43'	15"	-77°	11'	30"	Unnamed Tributary to Accotink Creek
002	38°	43'	0"	-77°	10'	45"	Unnamed Tributary to Accotink Creek
003	38°	42'	30"	-77°	10'	15"	Unnamed Tributary to Accotink Creek
004	38°	42'	30"	-77°	10'	15"	Unnamed Tributary to Accotink Creek
005	38°	42'	0"	-77°	9'	15"	Unnamed Tributary to Accotink Bay
006	38°	41'	30"	-77°	8'	45"	Unnamed Tributary to Gunston Cove
007	38°	41'	0"	-77°	8'	30"	Unnamed Tributary to Gunston Cove
008	38°	44'	15"	-77°	9'	15"	Unnamed Tributary to Dogue Creek
009	38°	44'	0"	-77°	10'	0"	Unnamed Tributary to Accotink Creek
010	38°	42'	45"	-77°	9'	0"	Unnamed Tributary to Accotink Creek
011	38°	42'	30"	-77°	9'	15"	Unnamed Tributary to Accotink Creek
012	38°	43'	0"	-77°	10'	0"	Unnamed Tributary to Accotink Creek
013	38°	43'	15"	-77°	9'	0"	Unnamed Tributary to Accotink Creek
014	38°	43'	15"	-77°	9'	15"	Unnamed Tributary to Accotink Creek
015	38°	41'	30"	-77°	8'	45"	Unnamed Tributary to Accotink Bay
016	38°	42'	30"	-77°	7'	45"	Dogue Creek
017	38°	42'	0"	-77°	9'	0"	Unnamed Tributary to Accotink Bay
018	38°	41'	0"	-77°	8'	15"	Unnamed Tributary to Gunston Cove
019	38°	41'	0"	-77°	8'	15"	Unnamed Tributary to Gunston Cove
020	38°	40'	45"	-77°	8'	15"	Unnamed Tributary to Gunston Cove
021	38°	40'	45"	-77°	8'	15"	Unnamed Tributary to Gunston Cove
022	38°	40'	30"	-77°	8'	30"	Gunston Cove
023	38°	42'	0"	-77°	9'	15"	Unnamed Tributary to Accotink Bay
024	38°	44'	15"	-77°	9'	15"	Unnamed Tributary to Dogue Creek
025	38°	42'	45"	-77°	9'	30"	Unnamed Tributary to Accotink Creek
026	38°	42'	0"	-77°	8'	0"	Unnamed Tributary to Potomac River
027	38°	41'	15"	-77°	9'	0"	Unnamed Tributary to Accotink Bay
028	38°	43'	30"	-77°	8'	45"	Dogue Creek
029	38°	43'	45"	-77°	8	30"	Dogue Creek
030	38°	41'	45"	-77°	9'	15"	Dogue Creek
031	38°	45'	15"	-77°	12'	0"	Accotink Creek

## ATTACHMENT 2F-II IMPROVEMENTS

#### Attachment 2F-II Improvements

This attached copy of the August 2011 Consent Agreement and Final Order (CAFO) with EPA is attached as this is a current order between the EPA and U.S. Army Garrison Fort Belvoir. However, this agreement does not cover stormwater outfalls and the action within this agreement do not affect any stormwater outfall on the installation.

## BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

1650 Arch Street

Philadelphia, Pennsylvania 19103-2029

IN RE:

United States Department of the Army,

Respondent,

United States Army Garrison, Fort Belvoir Fort Belvoir, Virginia

Facility.

CONSENT AGREEMENT

Docket No. RCRA-03-2011-01 PS

#### Preliminary Statement

This Consent Agreement ("CA") is entered into by the Director of the Office of Enforcement, Compliance, and Environmental Justice, U.S. Environmental Protection Agency, Region III ("EPA" or "Complainant") and the U.S. Department of the Army ("Respondent"), pursuant to Sections 3008, 9006, and 9007 of the Resource Conservation and Recovery Act, as amended ("RCRA"), 42 U.S.C. §§ 6928, 6991e, and 6991f, Sections 113 and 118(a) of the Clean Air Act, as amended ("CAA"), 42 U.S.C. §§ 7413 and 7418(a), and the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation/Termination or Suspension of Permits ("Consolidated Rules"), 40 C.F.R. Part 22, including, specifically 40 C.F.R. §§ 22.13(b) and .18(b)(2) and (3).

#### Regulatory Background

This CA and the accompanying Final Order (collectively "CAFO") resolve violations of RCRA, Subtitles C and I, 42 U.S.C. §§ 6921-6939e and 6991-6991i, and regulations in the authorized Virginia hazardous waste and underground storage tank programs in connection with Respondent's facility located at the United States Army Garrison, Fort Belvoir, Fort Belvoir, Virginia. Virginia initially received final authorization for its hazardous waste regulations, the Virginia Hazardous Waste Management Regulations ("VaHWMR"). 9 VAC 20-60-12 et seq., on December 4, 1984, effective December 18, 1984 (49 Fed. Reg. 47391). EPA reauthorized Virginia's regulatory program on June 14, 1993, effective August 13, 1993 (58 Fed. Reg. 32855); on July 31, 2000, effective September 29, 2000 (65 Fed. Reg. 46606), and on June 20, 2003.

effective June 20, 2003 (68 Fed. Reg. 36925). The VaHWMR incorporate, with certain exceptions, specific provisions of Title 40 of the 2001 Code of Federal Regulations by reference. See 9 VAC 20-60-18.

On September 28, 1998 (effective October 28, 1998) (63 Fed. Reg. 51528), pursuant to Section 9004 of RCRA, 42 U.S.C. § 6991c, and 40 C.F.R. Part 281, Subpart A, the Commonwealth of Virginia was granted final authorization by EPA to administer a state underground storage tank management program in lieu of the Federal underground storage tank management program established under Subtitle I of RCRA, 42 U.S.C. §§ 6991-699!i. The provisions of the Commonwealth of Virginia underground storage tank management program, through this final authorization, have become requirements of Subtitle I of RCRA and are, accordingly, enforceable by EPA pursuant to Section 9006 of RCRA, 42 U.S.C. § 6991e. The provisions of the Commonwealth of Virginia's authorized underground storage tank program are cited as Underground Storage Tanks: Technical Standards and Corrective Action Requirements ("VA UST Regulations"), 9 VAC 25-580-10 et seq.

Respondent was previously notified regarding the RCRA allegations recited herein under cover letter dated March 5, 2010. In accordance with Sections 3008(a)(2) and 9006(a)(2) of RCRA, 42 U.S.C. §§ 6928(a)(2) and 6991e(a)(2), EPA has notified the Commonwealth of Virginia of EPA's intent to enter into a CAFO with Respondent resolving the RCRA violations set forth herein.

This CAFO also resolves violations of the CAA, 42 U.S.C. §§ 7401, et seq. EPA is authorized by Section 113 of the CAA, 42 U.S.C. § 7413, to take action to ensure that air pollution sources comply with all federally applicable air pollution control requirements. These include requirements promulgated by EPA and those contained in federally enforceable state implementation plans ("SIP") or permits. The Virginia SIP, approved by EPA at 40 C.F.R. Part 52, Subpart VV, provides for the issuance of installation and non-attainment operating permits for stationary sources of air pollution. Moreover, Respondent is also subject to the requirements set forth at 40 C.F.R. Part 82, Subpart F, regarding the regulation of equipment containing refrigerants which are ozone depleting substances.

Respondent was previously notified regarding the CAA allegations recited herein under cover letter dated March 5, 2010. EPA has notified the Commonwealth of Virginia of EPA's intent to enter into a CAFO with Respondent to resolve the CAA violations set forth herein.

#### General Provisions

- 1. For purposes of this proceeding only, Respondent admits the jurisdictional allegations set forth in this CAFO.
- 2. Respondent neither admits nor denies the specific factual allegations and conclusions of law set forth in this CAFO, except as provided in Paragraph 1, above.

- 3. Respondent agrees not to contest EPA's jurisdiction with respect to the execution of this CA, the issuance of the attached Final Order, or the enforcement of the CAFO.
- 4. For the purposes of this proceeding only, Respondent hereby expressly waives its right to contest the allegations set forth in this Consent Agreement and any right to appeal the accompanying Final Order, or any right to confer with the EPA Administrator pursuant to RCRA Section 6001(b)(2), 42 U.S.C. § 6961(b)(2).
- 5. Respondent consents to the issuance of this CAFO and agrees to comply with its terms and conditions.
- 6. Respondent shall bear its own costs and attorney's fees.
- 7. Respondent certifies to EPA by its signature herein that it is presently in compliance with the provisions of RCRA and CAA referenced herein.
- 8. The provisions of this CAFO shall be binding upon Complainant and Respondent, its officers, directors, employees, successors, and assigns.
- 9. This CAFO shall not relieve Respondent of its obligation to comply with all applicable provisions of federal, state or local law, nor shall it be construed to be a ruling on, or determination of, any issue related to any federal, state or local permit; nor does this CAFO constitute a waiver, suspension or modification of the requirements of RCRA, Subtitle C, 42 U.S. C. §§ 6921-6939e, RCRA, Subtitle I, 42 U.S.C. §§ 6991-6991i, the CAA, or any regulations promulgated thereunder.

#### EPA's Findings of Fact and Conclusions of Law

- 10. In accordance with the Consolidated Rules at 40 C.F.R. §§ 22.13(b) and 22.18(b)(2) and (3), Complainant makes the findings of fact and conclusions of law which follow.
- Respondent is the owner and operator of the United States Army Garrison, Fort Belvoir, 9820 Flagler Road, Fort Belvoir, Virginia 22060 (the "Facility").
- 12. EPA conducted an inspection of Respondent's Facility on June 11-14, 2007 ("EPA Inspection").

#### COUNT I (RCRA SUBTITLE C-OPERATING WITHOUT A PERMIT)

13. Paragraphs 1-12 of this CAFO are incorporated by reference as though fully set forth herein.

Respondent is and has been at all times relevant to this CAFO the "owner" and "operator" of a "facility," as those terms are defined by 9 VAC 20-60-260, which, with exceptions not relevant to this term, incorporates by reference 40 C.F.R. § 260.10.

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- Respondent is a department, agency and/or instrumentality of the United States and is a "person" as defined by Section 1004(15) of RCRA, 42 U.S.C. § 6903(15), and 9 VAC 20-60-260, which, with exceptions not relevant to this term, incorporates by reference 40 C.F.R. § 260.10.
- Respondent is and, at all times relevant to this CAFO, has been a "generator" of, and has engaged in the "storage" in "containers" of materials that are "solid wastes" and "hazardous waste" at the Facility, as those terms are defined in 9 VAC 20-60-260 and 261, which incorporate by reference 40 C.F.R. §§ 260.10 and 261.2 and .3, including the hazardous waste referred to herein.
- 17. Section 3005(a) and (e) of RCRA, 42 U.S.C. § 6925(a) and (e), and 9 VAC 20-60-270 (which incorporates by reference 40 C.F.R. § 270.1(b)) provide, in pertinent part, that a person may not operate a hazardous waste storage, treatment or disposal facility unless such person has first obtained a permit for such facility or has qualified for interim status.
  - 9 VAC 20-60-262, which incorporates by reference 40 C.F.R. § 262.34(a), provides that a generator may accumulate hazardous waste on site for 90 days or less without a permit or without having interim status provided that, *inter alia*:
    - a. The waste is placed in containers and the generator complies with 40 C.F.R. § 265, Subparts I, AA, BB and CC;
    - b. The date upon which each period of accumulation begins is clearly marked and visible for inspection on each container;
    - c. While being accumulated on-site, each container and tank is labeled or marked clearly with the words "Hazardous Waste;" and
    - d. The generator complies with the requirements for owners or operators set forth in 40 C.F.R. Part 265, Subparts B, C, and D, § 265.16, and § 268.7(a)(5).
    - 40 C.F.R. § 262.34(b) provides that a generator who accumulates hazardous waste for more than 90 days is an operator of a storage facility and is subject to the requirements of 40 C.F.R. Parts 264 and 265 and the permit requirements of 40 C.F.R. Part 270 unless he has been granted an extension to the 90-day period.

#### Waste Determination

- 9 VAC 20-60-262, which incorporates by reference the requirements of 40 C.F.R. § 262.11, requires that a person who generates a solid waste determine if the waste is a hazardous waste using one of the methods therein described.
- 21 At the time of the EPA Inspection, the EPA inspector observed the following:
  - a. The Facility did not properly determine if waste from a large used oil tank in Building 1420 was hazardous waste.
  - b. The Facility did not properly determine if containers of used paint stripper located in Building 1420, which also contained used paint, were hazardous waste.
  - c. The Facility did not properly determine if a one quart container observed in a waste container used to accumulate punctured aerosol cans in the CMRL area outside of Room #1105 was hazardous waste.
  - d. The Facility did not properly determine if an unpunctured aerosol can observed in a fifty-five (55) gallon drum at the Davison Airfield, Building 3231, was hazardous waste.
- 22. Respondent violated 9 VAC 20-60-262, which incorporates by reference the requirements of 40 C.F.R. § 262.11, by failing to determine if the solid wastes described in Paragraph 21, above, were hazardous wastes.

#### Weekly Inspection

- 9 VAC 20-60-262, which incorporates by reference 40 C.F.R. § 262.34(a)(1)(i), requires (through the incorporation by reference of 40 C.F.R. § 265.174) that areas where containers are stored must be inspected at least weekly.
- At the time of the EPA Inspection, the Facility could not produce documentation that the storage area in Building 1495 had been inspected during the second week of May in 2007.
- 25. Respondent violated 9 VAC 20-60-262, which incorporates by reference 40 C.F.R. § 262.34(a)(1)(i), by failing to inspect the storage area in Building 1495 during the second week of May 2007.

#### Satellite Accumulation

26. 9 VAC 20-60-262, which incorporates by reference the requirements of 40 C.F.R. § 262.34(c)(1), provides, in relevant part, that a generator may accumulate as much as 55 gallons of hazardous waste at or near any point of generation where waste initially

accumulate, which is under the control of the operator of the process generating the waste without a permit or interim status provided certain condition are met.

- At the time of the EPA Inspection, the EPA inspector observed that hazardous wastes from two different buildings (Buildings 3140 and 3145) were placed in a drum located in a plastic containment structure outside of and adjacent to Building 3140.
- 28. Respondent violated 9 VAC 20-60-262, which incorporates by reference the requirements of 40 C.F.R. § 262.34(c)(1), by placing waste generated from a location which was not at a not at or near the point of generation in the accumulation area outside of and adjacent to Building 3140.

#### Open Containers

- 9 VAC 20-60-264, which incorporates by reference 40 C.F.R. § 264.173(a), provides that a container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.
- 30. At the time of the EPA Inspection, the EPA inspector observed a drum at Building 1696 in the Marina Area that had its bung open. The drum contained a small amount of waste gasoline, a hazardous waste.
- Respondent violated 9 VAC 20-60-264, which incorporates by reference 40 C.F.R. § 264.173(a), by failing to keep the drum at Building 1696 in the Marina Area closed during storage, even though it was not necessary to add or remove waste at the time of the EPA Inspection.
- Because Respondent did not properly characterize its waste, as described in Paragraphs 20-22, above, did not comply with the requirements concerning weekly inspections, as described in Paragraphs 23-25, above, did not comply with the satellite accumulation requirements, as described in Paragraphs 26-28, above, and did not keep its containers closed during storage, except when necessary to add or remove waste from such containers, as described in Paragraphs 29-31, above, Respondent failed to satisfy the conditions set forth at 9 VAC 20-60-262, which incorporates by reference 40 C.F.R. § 262.34, for a generator to qualify for an exemption from the permit and/or interim status requirements of RCRA Section 3005(a) and (e), 42 U.S.C. § 6925(a) and (e), and 9 VAC 20-60-270 for the hazardous waste management activities described in Paragraphs 20-31, above.
- Respondent does not have, and at the time of the violations alleged herein, did not have, a permit or interim status to store hazardous waste at the Facility as required by 9 VAC 20-60-270, which incorporates by reference 40 C.F.R. § 270.1(b), and Section 3005(a) and (e) of RCRA, 42 U.S.C. § 6925(a) and (e).

Because of the activities alleged in Paragraphs 20-31, above, Respondent violated 9 VAC 20-60-270, which incorporates by reference 40 C.F.R. § 270.1(b), by operating a hazardous waste storage facility without a permit or interim status.

#### COUNT II (RCRA—WASTE DETERMINATION)

- 35. Paragraphs 1 through 34 of the CAFO are incorporated by reference as though fully set forth herein.
- 36. 9 VAC 20-60-262, which incorporates by reference the requirements of 40 C.F.R. § 262.11, requires that a person who generates a solid waste determine if the waste is a hazardous waste using one of the methods therein described.
- 37. At the time of the EPA Inspection, the EPA inspector observed the following:

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- a. The Facility did not properly determine if waste from a large used oil tank in Building 1420 was hazardous waste.
- b. The Facility did not properly determine if containers of used paint stripper located in Building 1420, which also contained used paint, were hazardous waste.
- c. The Facility did not properly determine if a one-quart container observed in a waste container used to accumulate punctured aerosol cans in the CMRL area outside of Room #1105 was hazardous waste.
- d. The Facility did not properly determine if an unpunctured aerosol can observed in a fifty-five (55) gallon drum at the Davison Airfield, Building 3231, was hazardous waste.
- 38. Respondent violated 9 VAC 20-60-262, which incorporates by reference the requirements of 40 C.F.R. § 262.11, by failing to determine if the solid wastes described in Paragraph 37, above, were hazardous wastes.

#### COUNT III (RCRA—WEEKLY INSPECTION)

- 39. Paragraphs 1 through 38 of the CAFO are incorporated by reference as though fully set forth herein.
- 40. 9 VAC 20-60-264, which incorporates by reference 40 C.F.R. § 264.174, requires that areas where containers are stored must be inspected at least weekly.
- 41. At the time of the EPA Inspection, the Facility could not produce documentation that the storage area in Building 1495 had been inspected during the second week of May in 2007.

Respondent violated 9 VAC 20-60-264, which incorporates by reference 40 C.F.R. § 264.174, by failing to inspect the storage area in Building 1495 during the second week of May 2007.

#### COUNT IV (RCRA—OPEN CONTAINER)

- 43. Paragraphs 1 through 42 of the CAFO are incorporated by reference as though fully set forth herein.
- 44. 9 VAC 20-60-264, which incorporates by reference 40 C.F.R. § 264.173(a), provides that a container holding hazardous waste must always be closed during storage, except when it is necessary to add or remove waste.
- 45. At the time of the EPA Inspection, the EPA inspector observed a drum at Building 1696 in the Marina Area that had its bung open. The drum contained a small amount of waste gasoline, a hazardous waste.
- At the time of the EPA Inspection, Respondent violated 9 VAC 20-60-264, which incorporates by reference 40 C.F.R. § 264.173(a), by failing to keep the drum at Building 1696 in the Marina Area closed during storage, even though it was not necessary to add or remove waste.

#### COUNT V (RCRA—PERMIT VIOLATION)

- 47. Paragraphs I through 46 of the CAFO are incorporated by reference as though fully set forth herein.
- 48. The Facility was issued a hazardous waste storage permit by the Virginia Department of Environmental Quality which became effective on October 23, 2004 and will remain in effect until October 23, 2014.
- 49. Section III.A.1.(3) of the hazardous waste storage permit requires the Facility to clearly mark the date upon which each period of accumulation began on each container that is located in the permitted area.
- One container in Cell #7 of Building 1490, the Facility's RCRA-permitted storage area, contained flammable waste corrosive liquid. At the time of the EPA Inspection, the container was marked with a hazardous waste label, but did not have an accumulation start date.
- 51. The Facility violated Section III.A.1.(3) of its hazardous waste storage permit by failing to mark the accumulation start date on a container of flammable waste corrosive liquid in Cell #7 of Building 1490.

#### COUNT VI (RCRA SUBTITLE I-RELEASE DETECTION FOR PIPING)

- Paragraphs 1 through 51 of the CAFO are incorporated by reference as though fully set forth herein.
- Respondent is a department, agency and/or instrumentality of the United States and is a "person" as defined by Section 9001(6) of RCRA, 42 U.S.C. § 6991(6).
- Respondent is, and at the time of the violations alleged in this CAFO, was the "owner" and/or "operator" of "underground storage tanks" ("USTs" and "UST systems"), as defined in Section 9001(1), (3), and (4) of RCRA, 42 U.S.C. § 6991(1), (3), and (4), and 9 VAC § 25-580-10. At the time of the EPA Inspection, Respondent was the owner and/or operator of USTs in Buildings 1133, 1197, and 2304.
- Respondent's USTs referenced in Paragraph 54, above, are and were at all times relevant hereto "petroleum UST systems" used to store "regulated substances" as defined in 9 VAC 25-580-10, and Section 9001(2) of RCRA, 42 U.S.C. § 6991(2).
- 56. Pursuant to 9 VAC 25-580-130.A. and C., owners and operators of new and existing UST systems must provide a method or combination of methods of release detection monitoring that meets the requirements described therein.
- 57. 9 VAC 25-580-140.2 provides, in pertinent part, that underground piping that routinely contains regulated substances must be monitored for releases in a manner that meets one of the following requirements:
  - a. Pressurized piping. Underground piping that conveys regulated substances under pressure must:
    - (1) Be equipped with an automatic line leak detector conducted in accordance with subdivision 1 of 9 VAC 25-580-170; and
    - (2) Have an annual line tightness test conducted in accordance with subdivision 2 of 9 VAC 25-580-170 or have monthly monitoring conducted in accordance with subdivision 3 of 9 VAC 25-580-170.
  - b. Suction piping. Underground piping that conveys regulated substances under suction must either have a line tightness test conducted at least every three years and in accordance with subdivision 2 of 9 VAC 25-580-170, or use a monthly monitoring method conducted in accordance with subdivision 3 of 9 VAC 25-580-170. No release detection is required for suction piping that is designed and constructed to meet the following standards:
    - (1) The below-grade piping operates at less than atmospheric pressure;
    - (2) The below-grade piping is sloped so that the contents of the pipe will drain back into the storage tank if the suction is released:

- (3) Only one check valve is included in each suction line;
- (4) The check valve is located directly below and as close as practical to the suction pump; and
- (5) A method is provided that allows compliance with subdivisions 2 b (2) through (4) of this section to be readily determined.
- At the time of the EPA Inspection, the piping associated with Tanks 1133F and 1133E at Building 1133 was suction piping.
- 59. At the time of the EPA Inspection, the piping associated with Tanks 1197I and 1197G at Building 1197 was pressurized piping.
- At the time of the EPA Inspection, the piping associated with Tanks 2304D, 2304A, and 2304B at Building 2304 was pressurized piping.
- At the time of the EPA Inspection, Respondent was using interstitial monitoring as its leak detection method for the piping associated with the tanks described in Paragraphs 58 60, above. At the time of the EPA Inspection, Respondent was not using any other method of leak detection for the piping associated with these tanks.
- With respect to the piping associated with the tanks described in Paragraphs 58-60, above, any leak from the interstitial space between piping walls was designed to flow to a sump. Each of these sumps had a sump sensor to detect a leak from piping. At the time of the EPA Inspection, each of the sump sensors associated with these tanks was improperly placed in the sumps as they were placed either too high in relation to the bottom of the sump or not in a vertical position. Moreover, with respect to Tank 2304D at Building 2304, the line leak detector for the piping was not tested on an annual basis.
- 63. At the time of the EPA Inspection, Respondent was not properly conducting interstitial monitoring for the piping associated with the tanks described in Paragraphs 58-60, above.
- Respondent violated 9 VAC 25-580-140.2 (40 C.F.R. § 280.41) by failing to properly perform release detection for the piping associated with the tanks described in Paragraphs 58-60, above, at the Facility.

#### COUNT VII (RCRA SUBTITLE I—CORROSION PROTECTION)

- 65. Paragraphs 1 through 64 of the CAFO are incorporated by reference as though fully set forth herein.
- 66. 9 VAC 25-580-90 requires corrosion protection for those components of tanks and piping that routinely contain regulated substances and are in contact with the ground.

- 67. At the time of the EPA Inspection, piping associated with the USTs at Building 1133 was in contact with the ground in at least two locations.
- Those portions of the pipe which were in contact with the ground did not have corrosion 68. protection)
- Respondent violated 9 VAC 25-580-90 by not having corrosion protection for those 69. portions of piping associated with USTs at Building 1133 which were in contact with the ground.

#### <u>COUNT VIII (CAA—TITLE V PERMIT—VETERINARY CLINIC INCINERATOR)</u>

- 70. Paragraphs 1 through 69 of the CAFO are incorporated by reference as though fully set forth herein.
- 71. EPA is authorized by Section 113 of the CAA, 42 U.S.C. § 7413, to take action to ensure that air pollution sources comply with all federally applicable air pollution control requirements. These include requirements promulgated by EPA and those contained in federally enforceable state implementation plans or permits.
- 72. Title V of the Act, and implementing regulations at 40 C.F.R. Part 70, require that states develop and submit to EPA operating permit programs, and that EPA act to approve or disapprove each program.
- 73. Provisions included by state permitting authorities in Title V permits issued under a program approved by EPA are enforceable by EPA unless denoted in the permit as a state or local requirement that is not federally enforceable.
- 74. EPA fully approved the Title V operating permit programs for the Commonwealth of Virginia effective on November 30, 2001. 40 C.F.R. Part 70, Appendix A.
- The Facility received a Title V permit effective on March 21, 2003, with an expiration 75. date of March 21, 2008. The Facility's Title V permit number is NVR070550. This permit was in effect at the time of the EPA Inspection.
- 76. Condition XI.A.B of the Facility's Title V operating permit provided that the minimum temperatures in the primary and secondary combustion chambers of the Veterinary Clinic Incinerator ("VCI") were required to be 1200° F and 1600° F, respectively. 477724111
- 77. The Facility had at least one documented occasion on June 19, 2006, in which it did not operate the VCI in accordance with the Title V permit temperature limits.
- 78. The Facility violated its Title V operating permit with respect to the minimum

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temperatures in the primary and secondary combustion chambers at the VCI on at least one occasion.

#### COUNT IX (CAA-TITLE V PERMIT-EMPLOYEE TRAINING)

- 79 Paragraphs 1 through 78 of the CAFO are incorporated by reference as though fully set forth herein.
- 80. Section III of the Facility's Title V permit pertains to the Central Heating Plant. Section III.B.3. of the Facility's Title V permit provides that, "The permittee shall maintain records of the required training including a statement of time, place and nature of training provided."
- At the time of the EPA Inspection, the Facility's training records for the year 2006 did not note the place and time of the training pertaining to the Central Heating Plant.
- 82. Section VII of the Facility's Title V permit pertains to emergency generators. Section VII.B.3. of the Facility's Title V permit provides that, "The permittee shall maintain records of the required training including a statement of time, place and nature of training provided."
- At the time of the EPA Inspection, the Facility's training records with respect to the emergency generators were not available.
- Section XII of the Facility's Title V permit pertains to the Defense CEETA Incinerator. Section XII.B.2. of the Facility's Title V permit provides that, "U.S. Army, Fort Belvoir shall maintain records of the required training and certification. Certification of training shall consist of a statement of time, place and nature of training provided."
- 85. At the time of the EPA Inspection, the Facility's training records with respect to the Defense CEETA Incinerator were not available.
- 86. The Facility did not comply with the recordkeeping requirements set forth in its Title V permit pertaining to training.

## COUNT X (CAA—REFRIGERANT REGULATIONS)

- 87. The allegations contained in Paragraphs 1 through 86 of this CAFO are incorporated by reference herein as though fully set forth at length.
- 88. Under Section 13(a)(3) of the CAA, the Administrator of EPA has the authority to issue orders requiring persons to comply with the National Recycling and Emission Reduction Program for stratospheric ozone-depleting refrigerants promulgated under Section 608(a)

of the CAA, 42 U.S.C. § 7671g(a).

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89. 40 C.F.R. § 82.166(k) requires that facilities with appliances containing greater than fifty pounds of a Class I or Class II ozone depleting refrigerants must create and maintain servicing records documenting the date and type of service, as well as the quantity of refrigerant added to such appliances.

90. At the time of the EPA Inspection, the Facility did not maintain adequate records regarding its servicing of appliances containing greater than fifty pounds of a Class I or Class II ozone depleting refrigerants.

The Facility violated 40 C.F.R. § 82.166(k) by failing to create or maintain servicing records documenting the date and type of service, as well as the quantity of refrigerant added with respect to its appliances containing greater than fifty pounds of a Class I or Class II ozone depleting refrigerants.

#### CIVIL PENALTY

- Page 192. Respondent consents to the assessment of a civil penalty of THIRTY THREE THOUSAND AND SEVENTY SIX DOLLARS (\$33,076.00) and agrees to perform a Supplemental Environmental Project (SEP) in full satisfaction of all claims for civil penalties for the violations alleged in the above alleged ten counts of this CAFO. Respondent must pay the civil penalty no later than THIRTY (30) calendar days after the date on which this CAFO is mailed or hand-delivered to Respondent. In addition to the factors recited in Paragraphs 93 95, below, Respondent's agreement to perform the SEP was considered in reaching this civil penalty amount.
- 93. For the violations alleged in Counts I - V, EPA considered a number of factors including, but not limited to, the statutory factors set forth in Section 3008(a)(3) of the RCRA, 42 U.S.C. § 6928(a)(3), i.e., the seriousness of Respondent's violations and the good faith efforts by Respondent to comply with the applicable requirements of the RCRA, and the RCRA Civil Penalty Policy (2003). EPA has also considered the Adjustments of Civil Penalties for Inflation and Implementing the Debt Collection Improvement Act of 1996 ("DCIA"), as set forth in 40 C.F.R. Part 19, and the December 29, 2008 memorandum by EPA Assistant Administrator Granta Y. Nakayama entitled, Amendments to EPA's Civil Penalty Policies to Implement the 2008 Civil Monetary Penalty Inflation Adjustment Rule (Effective January 12, 2009) ("2008 Nakayama Memorandum"), which specify that for violations that occurred after January 30, 1997, statutory penalties and penalties under the RCRA Civil Penalty Policy for, inter alia, RCRA Subtitle C violations, were increased 10% above the maximum amount to account for inflation and, statutory penalties for, inter alia, RCRA Subtitle C violations that occurred after March 15, 2004 through January 12, 2009, were increased by and an additional 17.23% above the maximum amount to account for inflation.

For the violation alleged in Counts VI - VII, EPA considered a number of factors, including, but not limited to: the statutory factors of the seriousness of Respondent's violations and any good faith efforts by Respondent to comply with all applicable requirements as provided in RCRA Section 9006(d), 42 U.S.C. § 6991e(d), and EPA's Penalty Guidance for Violations of UST Regulations ("UST Guidance") dated November 4, 1990. EPA has also considered the DCIA, as set forth in 40 C.F.R. Part 19, and the 2008 Nakayama Memorandum which specify that for violations that occurred after January 30, 1997, statutory penalties and penalties under the UST Guidance were increased 10% above the maximum amount to account for inflation and, statutory penalties for violations that occurred after March 15, 2004 through January 12, 2009, were increased by an additional 17.23% above the maximum amount to account for inflation.

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For the violations alleged in Counts VIII - X, EPA considered a number of factors, including, but not limited to, the penalty assessment criteria in Section 113(e) of the CAA, 42 U.S.C. § 7413(e), including the seriousness of Respondent's violations and Respondent's good faith efforts to comply, and the Clean Air Act Stationary Source Civil Penalty Policy (1991). EPA also considered the DCIA, as set forth in 40 C.F.R. Part 19, and the 2008 Nakayama Memorandum, which specify that for violations that occurred after January 30, 1997, statutory penalties and penalties under the Clean Air Act Stationary Source Civil Penalty Policy, were increased 10% above the statutory maximum amount to account for inflation and, statutory penalties for violations that occurred after March 15, 2004 through January 12, 2009, were increased by an additional 17.23% above the maximum amount to account for inflation.

Payment of the civil penalty amount required under the terms of Paragraph 92, above, shall be made by either cashier's check, certified check or electronic wire transfer, in the following manner:

- a. All payments by Respondent shall reference its name and address and the Docket Number of this action (Docket No. RCRA-03-2011-0115);
- b. All checks shall be made payable to "United States Treasury;"
- c. All payments made by check and sent by regular mail shall be addressed and mailed to:

U.S. Environmental Protection Agency Fines and Penalties Cincinnati Finance Center P.O. Box 979077 St. Louis, MO 63197-9000 The Customer Service contact for the above method of payment is Bryson Lehman at 513-487-2123.

d. All payments made by check and sent by overnight delivery service shall be addressed and sent to:

U.S. Bank Government Lockbox 979077 U.S. EPA, Fines & Penalties 1005 Convention Plaza Mail Station SL-MO-C2-GL St. Louis, MO 63101

The Gustomer Service number for the above method of payment is 314-418-1028.

e. All electronic wire transfer payments shall be directed to:

Federal Reserve Bank of New York

ABA = 021030004

Account = 68010727

SWIFT address = FRNYUS33

33 Liberty Street

New York, NY 10045

Field Tag 4200 of the Fedwire message should read "D 68010727

Environmental Protection Agency"

f. All payments through the Automated Clearinghouse (ACH), also known as Remittance Express (REX), shall be directed to:

US Treasury REX/Cashlink ACH Receiver
ABA = 051036706
Transaction Code 22 - checking
Account 310006, Environmental Protection Agency
CTX Format Transaction Code 22 - Checking

Physical location of U.S. Treasury Facility:

5700 Rivertech Court Riverdale, MD 20737

The Customer Service contact for the above method of payment is Jesse White at 301-887-6548, or REX at 1-866-234-5681.

- There is an on-line payment option available through the Department of the g. Treasury. This payment option can be accessed from: WWW.PAY.GOV. Enter sfo 1.1 in the search field and complete all required fields in the form.
- At the same time that any payment is made, Respondent shall mail copies of any h. corresponding check, or written notification confirming any electronic wire transfer, to:

Ms. Lydia Guy Regional Hearing Clerk (3RC00) U.S. Environmental Protection Agency Region III 1650 Arch Street Philadelphia, PA 19103-2029

and to

Daniel L. Isales (3RC60) Environmental Science Center U.S. Environmental Protection Agency, Region III 701 Mapes Road Fort Meade, MD 20755-5350

In accordance with 40 C.F.R. § 13.3, any debt owed to the EPA as a result of 97. Respondent's failure to make timely payments in accordance with Paragraph 92 above, shall be resolved by negotiation between the EPA and Respondent or by referral to the General Accounting Office.

## SUPPLEMENTAL ENVIRONMENTAL PROJECT (SEP)

- Respondent shall complete the SEP described in the Scope of Work, which is attached 98. hereto as Attachment A and incorporated herein by reference, which the parties agree is intended to secure significant environmental benefits or public health protection and improvements. The SEP, which requires replacement of six refrigeration units at the Facility with refrigeration units that use non-ozone depleting refrigerants, shall be completed in accordance with the schedule set forth in the Scope of Work.
- The total expenditure for the SEP shall be not less than the amount specified in the Scope 99. of Work. Respondent shall include documentation of the expenditures made in connection with the SEP as part of the SEP Completion Report.
- Respondent hereby certifies that, as of the date of this Consent Agreement, Respondent is 100. not required to perform or develop the SEP by any federal, state or local law or regulation; nor is Respondent required to perform or develop the SEP by any other 16

agreement, grant or as injunctive relief in this or any other case. Respondent hereby certifies that, as of the date of this Consent Agreement, Respondent is not required to perform or develop the SEP by any Executive Order. Respondent further certifies that it has not received, and is not presently negotiating to receive, credit in any other enforcement action for the SEP.

#### 101. Reporting

- a. Within five calendar days of completion of the SEP, Respondent will inform EPA in writing of such completion.
- b. SEP Completion Report. Respondent shall submit a SEP Completion Report to EPA for the SEP in accordance with the Scope of Work and the schedule set forth therein. Pursuant to the Scope of Work, for the purpose of determining when the SEP Completion Report is due, the SEP shall be completed within eighteen months after the effective date of this CAFO. The SEP Completion Report shall be due to EPA within sixty (60) calendar days after completion of the SEP. The SEP Completion Report shall contain the following information:
  - (i) A detailed description of the SEP as implemented;
  - (ii) A description of any operating problems encountered and the solutions thereto;
  - (iii) | Itemized costs for the entire project; and
  - (iv) Certification that the SEP has been fully implemented pursuant to the provisions of this CAFO.
- c. Respondent agrees that failure to submit the SEP Completion Report shall be deemed a violation of this CAFO and Respondent shall become liable for additional civil penalties pursuant to Paragraph 103, below.
- d. Respondent shall submit all notices and reports pertaining to the SEP required by this Consent Agreement and Final Order by overnight mail to:

Theresa Gallagher (3EC00)
U.S. Environmental Protection Agency
1650 Arch Street
Philadelphia, PA 19103-2029

and

Daniel L. Isales
Environmental Science Center (3RC60)

U.S. Environmental Protection Agency 701 Mapes Road Fort Meade, MD 20755-5350

- e. In itemizing its costs in the SEP Completion Report, Respondent shall clearly identify and provide acceptable documentation for all eligible SEP costs. Where the SEP Completion Report includes costs not eligible for SEP credit, those costs must be clearly identified as such. Eligible SEP costs include the costs of purchasing the equipment, but do not include overhead, additional employee time and salary expended in purchasing the equipment, administrative expenses, and legal fees. For purposes of this Paragraph, "acceptable documentation" includes invoices, purchase orders, or other documentation that specifically identifies and itemizes the individual costs of the goods and/or services for which payment is being made. Cancelled drafts do not constitute acceptable documentation unless such drafts specifically identify and itemize the individual costs of the goods and/or services for which payment is being made.
- f. In the SEP Completion Report submitted to EPA pursuant to this CAFO, Respondent shall sign and certify, by a principal executive officer as defined at 40 C.F.R § 270.11(a)(3), under penalty of law that the information contained in such document or report is true, accurate, and not misleading by signing the following statement:

I certify under penalty of law that I have examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment.

#### 102. EPA Acceptance of SEP Completion Report

- a. After receipt of the SEP Completion Report described in Paragraph 101, above, EPA will notify the Respondent, in writing, regarding: (i) any deficiencies in the SEP Completion Report itself along with a grant of an additional thirty (30) calendar days for Respondent to correct any deficiencies; or (ii) indicate that EPA concludes that the project has been completed in accordance with the CAFO; or (iii) determine that the project has not been completed in accordance with the CAFO and seek additional civil penalties in accordance with Paragraph 103, below.
- b. If EPA elects to exercise option (i) above, i.e., if the SEP Completion Report is determined to be deficient, but EPA has not yet made a final determination about

the adequacy of the SEP completion itself, EPA shall permit Respondent the opportunity to object in writing to the notification of deficiency given pursuant to this Paragraph within ten (10) calendar days of receipt of such notification. EPA and Respondent shall have an additional thirty (30) calendar days from the receipt by EPA of the notification of objection to reach agreement on changes necessary to the SEP Completion Report. If agreement cannot be reached on any such issue within this thirty (30) day period, EPA shall provide a written statement of its decision on adequacy of the completion of the SEP to Respondent, which decision shall be final and binding upon Respondent. In the event the SEP is not completed as contemplated herein, as determined by EPA, additional civil penalties shall be due and payable by Respondent to EPA in accordance with Paragraph 103, below.

#### 103. Additional Civil Penalties

- a. In the event that Respondent fails to comply with any terms or provision of this CAFO relating to the performance of the SEP and/or to the extent that the actual expenditures for the SEP do not equal or exceed the cost of the SEP described in the Scope of Work, Respondent shall be liable for additional civil penalties according to the provisions set forth below:
  - (i) Except as provided in subparagraph (ii) immediately below, if the SEP has not been completed in accordance this CAFO, Respondent shall pay an additional civil penalty to the United States of \$102,000,00.
  - (ii) If the SEP is not completed in accordance with the CAFO, but EPA determines that Respondent: a) made good faith and timely efforts to complete the project; and b) certifies, with supporting documentation, that at least ninety (90) percent of the amount of money which was required to be spent for that SEP was actually expended on the SEP. Respondent shall not be liable for any additional civil penalty.
  - (iii) If the SEP is completed in accordance with the CAFO, but the Respondent spent less than ninety (90) percent of the amount required to be spent for that SEP, Respondent shall pay an additional civil penalty to the United States of \$20,000.00.
  - (iv) If the SEP is completed in accordance with the CAFO and the Respondent spent at least ninety (90) percent of the amount of money required to be spent for the SEP, Respondent shall not be liable for any additional civil penalty.
  - (v) For failure to submit the SEP Completion Report required by Paragraph 101, above, Respondent shall pay an additional civil penalty in the

following amounts for each day after the date that the report is due until the report is submitted: for calendar days one (1) through ten (10), an additional penalty of \$250, and for every calendar day thereafter a penalty of \$500.

- b. The determination of whether the SEP has been completed in accordance with the CAFO and whether the Respondent has made a good faith, timely effort to implement the SEP shall be in the sole discretion of EPA.
- c. The additional civil penalty specified in subparagraph (v) above shall begin to accrue on the day after performance is due and shall continue to accrue through the final day of completion of the activity.
- d. Respondent shall pay any additional civil penalties not more than thirty (30) calendar days after receipt of a written demand for such penalties by EPA. The method of payment shall be in accordance with the provisions of Paragraph 96, above. Payment of any debt which arises as a result of late payment of an additional civil penalty shall be resolved in accordance with Paragraph 97.
- e. Nothing in this agreement shall be construed as prohibiting, altering or in any way limiting the ability of EPA to seek any other remedies or sanctions available by virtue of Respondent's violation of this CAFO or, excepting matters with respect to which Respondent is released hereunder, of the statutes and regulations upon which this agreement is based, or for Respondent's violation of any applicable provision of law.
- Any public statement, oral or written, in film or other media, made by Respondent making any reference to the SEP or its resultant environmental benefits in part or in total shall include the following language, "This project was undertaken in connection with the settlement of an enforcement action taken by the U.S. Environmental Protection Agency for alleged violations of environmental statutes and regulations."
- This CAFO shall not relieve Respondent of its obligation to comply with all applicable provisions of federal, state or local law, nor shall it be construed to be a ruling on, or determinations or, any issue related to any federal, state, or local permit, nor shall it be construed to constitute EPA approval of the equipment or technology installed by Respondent in connection with the SEP undertaken pursuant to this CAFO.

#### 106. Force Majeure

a. If any event occurs which causes or may cause delays in the completion of the SEP as required under this CAFO, Respondent shall notify EPA in writing not more than fifteen (15) calendar days after the delay or Respondent's knowledge of the anticipated delay, whichever is earlier. The notice shall describe in detail the anticipated length of the delay, the precise cause or causes of the delay, the

measures taken and to be taken by Respondent to prevent or minimize the delay, and the timetable by which those measures will be implemented. The Respondent shall adopt all reasonable measures to avoid or minimize any such delay. Failure by Respondent to comply with the notice requirements of this Paragraph shall render this Paragraph void and of no effect as to the particular incident involved and constitute a waiver of the Respondent's right to request an extension of its obligation under this CAFO based on such incident.

- b. If the Respondent and EPA agree that the delay or anticipated delay in compliance with the CAFO has been or will be caused by circumstances entirely beyond the control of Respondent, the time for performance hereunder may be extended for a period no longer than the delay resulting from such circumstances. In such event, Respondent and EPA shall stipulate, in writing, to such extension of time.
- c. In the event that EPA does not agree that a delay in achieving compliance with the requirements of the CAFO has been or will be caused by circumstances beyond the control of the Respondent, EPA will notify Respondent in writing of its decision and any delays in the completion of the SEP shall not be excused.
- d. The burden of proving that any delay is caused by circumstances beyond the control of the Respondent shall rest with the Respondent. Increased costs or expenses associated with the implementations of actions called for by this CAFO shall not, in any event, be a basis for change in this CAFO or extensions of time under section (b) of this Paragraph. Delay in achievement of one interim step shall not necessarily justify or excuse delay in achievement of subsequent steps.

#### **EFFECT OF SETTLEMENT**

Payment of the penalty specified in Paragraph 92, above, in the manner set forth in Paragraph 96, above, and compliance with all other terms of this CAFO shall constitute full and final satisfaction of all civil claims for penalties which Complainant may have under RCRA Subtitle C, RCRA Subtitle I, and the CAA for the specific violations alleged in Counts I - X, above. Compliance with this CAFO shall not be a defense to any action commenced at any time for any other violation of the federal laws and regulations administered by EPA.

#### **RESERVATION OF RIGHTS**

This CAFO resolves only the civil claims for monetary penalties for the specific violations alleged in the CAFO. EPA reserves the right to commence action against any person, including Respondent, in response to any condition which EPA determines may present an imminent and substantial endangerment to the public health, public welfare, or the environment. In addition, this settlement is subject to all limitations on the scope of resolution and to the reservation of rights set forth in Section 22.18(c) of the Consolidated Rules of Practice. Further, EPA reserves any rights and remedies available to it under

RCRA, the CAA, the regulations promulgated thereunder, and any other federal laws or regulations for which EPA has jurisdiction, to enforce the provisions of this CAFO, following its filing with the Regional Hearing Clerk. Respondent reserves all available rights and defenses it may have to defend itself in any such action.

#### **FULL AND FINAL SATISFACTION**

This CAFO constitutes a settlement by EPA of all claims for civil penalties pursuant to Sections 3008 and 9006 of RCRA, 42 U.S.C. §§ 6928 and 6991e, and Section 113 of the CAA, 42 U.S.C. § 7413, for the specific violations alleged in this CAFO. This CAFO constitutes the entire agreement and understanding of the parties regarding settlement of all claims pertaining to specific violations alleged herein, and there are no representations, warranties, covenants, terms, or conditions agreed upon between the parties other than those expressed in this CAFO.

#### ANTIDEFICIENCY ACT

Failure to obtain adequate funds or appropriations from Congress does not release Respondent from its obligation to comply with RCRA and the CAA, the applicable regulations thereunder, or with this CAFO. Nothing in this CAFO shall be interpreted to require obligation or payment of funds in violation of the Antideficiency Act, 31 U.S.C. § 1341.

#### **AUTHORITY TO BIND THE PARTIES**

The undersigned representative of Respondent certifies that he or she is fully authorized by the Respondent to enter into the terms and conditions of this Consent Agreement and to bind the Respondent to it.

#### **EFFECTIVE DATE**

112. This CAFO shall become effective upon filing with the Regional Hearing Clerk.

For Respondent:

The United States Department of the Army

5 Jul 11

COL, US ARMY

For Complainant:

U.S. Environmental Protection Agency, Region III

7/22/11

Date

Dawd ( Ist

Daniel L. Isales

Assistant Regional Counsel

U.S. EPA - Region III

Accordingly, I hereby recommend that the Regional Administrator or his designee, the Regional Judicial Officer, issue the Final Order attached hereto.

8/4/11 Date

Samantha P. Beers, Director

Office of Enforcement, Compliance, and

Environmental Justice U.S. EPA - Region III

## BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

1650 Arch Street Philadelphia, Pennsylvania 19103-2029

IN RE:

United States Department of the Army,

Respondent,

Docket No. RCRA-03-2011-0115

United States Army Garrison, Fort Belvoir Fort Belvoir, Virginia

Facility.

#### ATTACHMENT A-SCOPE OF WORK

#### I. PURPOSE

Consistent with and as provided in the May 1, 1998 "Final Supplemental Environmental Projects Policy," the Supplemental Environmental Project ("SEP") described herein is an environmentally beneficial project which Respondent has agreed to undertake in settlement of the above-captioned enforcement action, as set forth in the Consent Agreement and Final Order ("CAFO"), but which Respondent has stated it is not otherwise legally required to perform.

#### II. BUSINESS CONFIDENTIALITY

Pursuant to 40 C.F.R. § 2.203, Respondent may submit a claim of business confidentiality for any document or information submitted pursuant to this Scope of Work. Failure to make a business confidentiality claim at the time the document is submitted shall constitute a waiver of such claim. In the event that Respondent asserts a claim of business confidentiality with respect to the SEP Completion Report, Respondent will provide EPA with a redacted version of the report which does not contain any claimed business confidential information and which can be distributed to the public.

#### III. SEP PERFORMANCE STANDARDS

The purpose of this SEP is to replace six refrigeration units at the Fort Belvoir facility with refrigeration units that use non-ozone depleting refrigerants. Respondent shall purchase and install equipment to permanently replace the six refrigeration units listed below to utilize hydrofluorocarbon (HFC)-based refrigerant instead of the chlorofluorocarbon (CFC)-based

refrigerant used currently.

Building No.	Equipment Type/ Model number	Manufacturer
1416	Air cooled chiller/30GT045-610-KA	Carrier
701	Air cooled chiller/ACDR015A	Dunham Bush
702	Air cooled chiller/ACDR20A	Dunham Bush
1839	Air cooled chiller/YCAT180-46PA	York
612	Large direct expansion split system/38AE044510	Carrier
778 Large direct expansion split system/38AK024-500		Carrier

Respondent agrees to fully operate and maintain the refrigeration systems listed above and not to install systems that use CFC-based refrigerants. Respondent agrees that any CFC-based refrigerants recovered from the above-listed units will not be sold, but will be handled in accordance with Department of Defense policy.

#### V. COSTS

The cost for this SEP shall total no less than \$310,000.00.

#### VI. TIME FOR PERFORMANCE

The SEP will be completed within eighteen (18) months from the effective date of the CAFO.

## BEFORE THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION III

1650 Arch Street Philadelphia, Pennsylvania 19103-2029

IN	11 h	

United States Department of the Army,

Respondent,

Docket No. RCRA-03-2011-0115

United States Army Garrison, Fort Belvoir Fort Belvoir, Virginia

Facility.

#### FINAL ORDER

Complainant, the Director of the Office of Enforcement, Compliance, and Environmental Justice, U.S. Environmental Protection Agency - Region III, and Respondent, the United States Department of the Army, have executed a document entitled "Consent Agreement," which I hereby ratify as a Consent Agreement in accordance with the Consolidated Rules of Practice Governing the Administrative Assessment of Civil Penalties and the Revocation/Termination or Suspension of Permits ("Consolidated Rules of Practice"), 40 C.F.R. Part 22, with specific reference to Sections 22.13(b) and 22.18(b)(2) and (3). The terms of the foregoing Consent Agreement are accepted by the undersigned and incorporated into this Final Order as if fully set forth at length herein.

Based on the representations of the parties set forth in the Consent Agreement. I have determined that the penalty assessed herein is based upon a consideration of the factors set forth in Sections 3008(a) and 9006(c) of the Resource Conservation and Recovery Act, 42 U.S.C. §§ 6928(a) and 6991e(c), EPA's 2003 RCRA Civil Penalty Policy, EPA's November 1990 Penalty Guidance for Violations of UST Regulations, Section 113(e) of the Clean Air Act, 42 U.S.C. § 7413(e), EPA's Clean Air Act Stationary Source Civil Penalty Policy (1991), and the Consolidated Rules of Practice. IT IS HEREBY ORDERED that Respondent pay a penalty of THIRTY THREE THOUSAND AND SEVENTY SIX DOLLARS (\$33,076.00) and comply with the terms and conditions of the Consent Agreement. Payment shall be made in the manner set forth in the foregoing Consent Agreement. Payment shall reference Respondent's name and address as well as the EPA Docket Number of this Final Order (Docket No. RCRA-03-2011-0115).

The effective date of the foregoing Consent Agreement and this Final Order is the date on which this Final Order is filed with the Regional Hearing Clerk.

8/17/11 Date

Repée Sarajian

Regional Judicial Officer

U.S. Environmental Protection Agency, Region III

IN RE:

United Stated Department of the Army

2811 AUG 24 AM 8: 28

Respondent;

MATERIAL PA

United States Anny Garrison, Fort Belvoir Fort Belvoir, Virginia : Docket No. RCRA-03-2011-0115

Facility.

## CERTIFICATE OF SERVICE

I certify that on the date noted below, I sent a true and correct copy of the Consent Agreement and Final Order to the following:

ORIGINAL AND ONE COPY FILED, VIA HAND DELIVERY

Lydia Guy
Regional Hearing Clerk
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103

COPY SERVED, VIA CERTIFIED MAIL, RETURN RECEIPT REQUESTED

Office of the Staff Judge Advocate ATTN: Karen S. Gillett 9990 Belvoir Drive For Belvoir, VA 22060

Dated:

August 24, 2011

Daniel L. Isales

Assistant Regional Counsel

U.S. EPA, Region III

Environmental Science Center

701 Mapes Road

Fort Meade, MD 20755-5350

(410) 305-3016

# ATTACHMENT 2F-III SITE DRAINAGE MAPS

#### 3510-2F-III: Site Drainage Maps

This section includes the following maps:

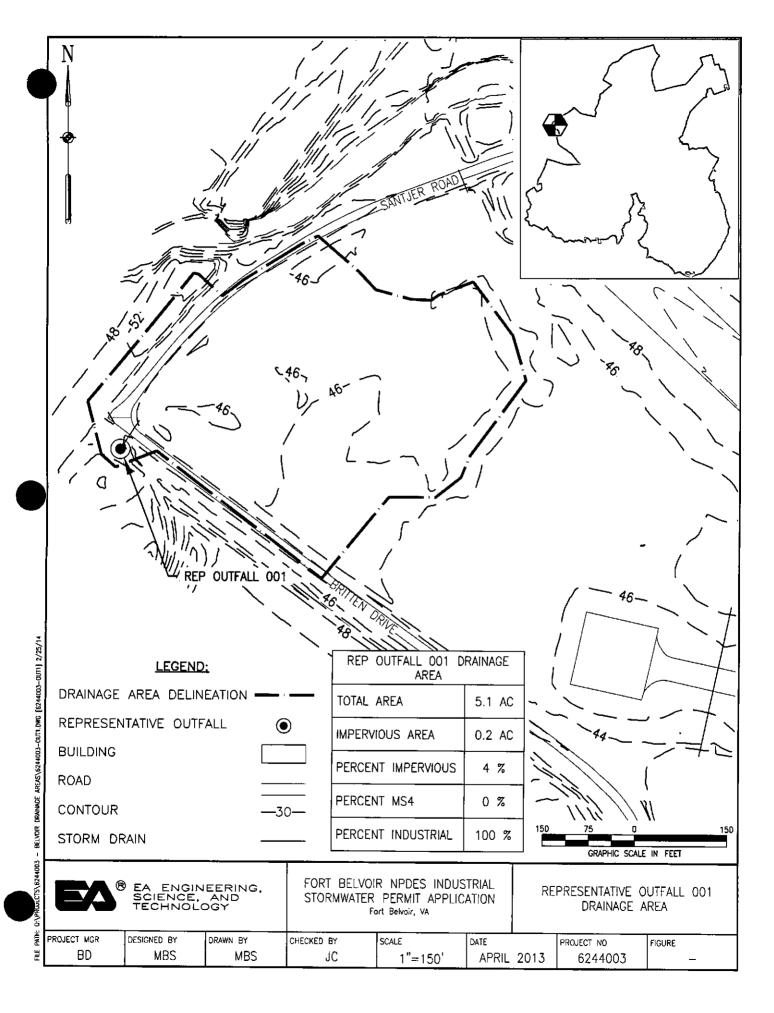
- Site Stormwater Map.
- Ft. Belvoir Quadrangle Maps.
- Representative Outfall Drainage Area Maps for Representative Outfalls 001-031.

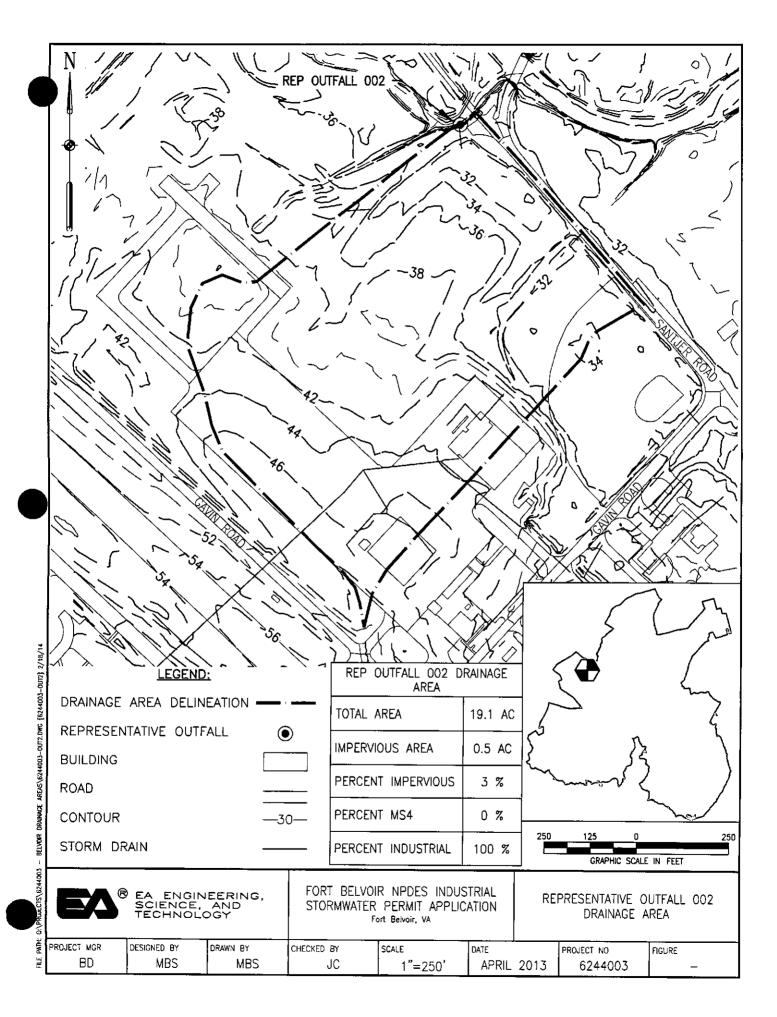
# **Notification of Un-scanned Pages**

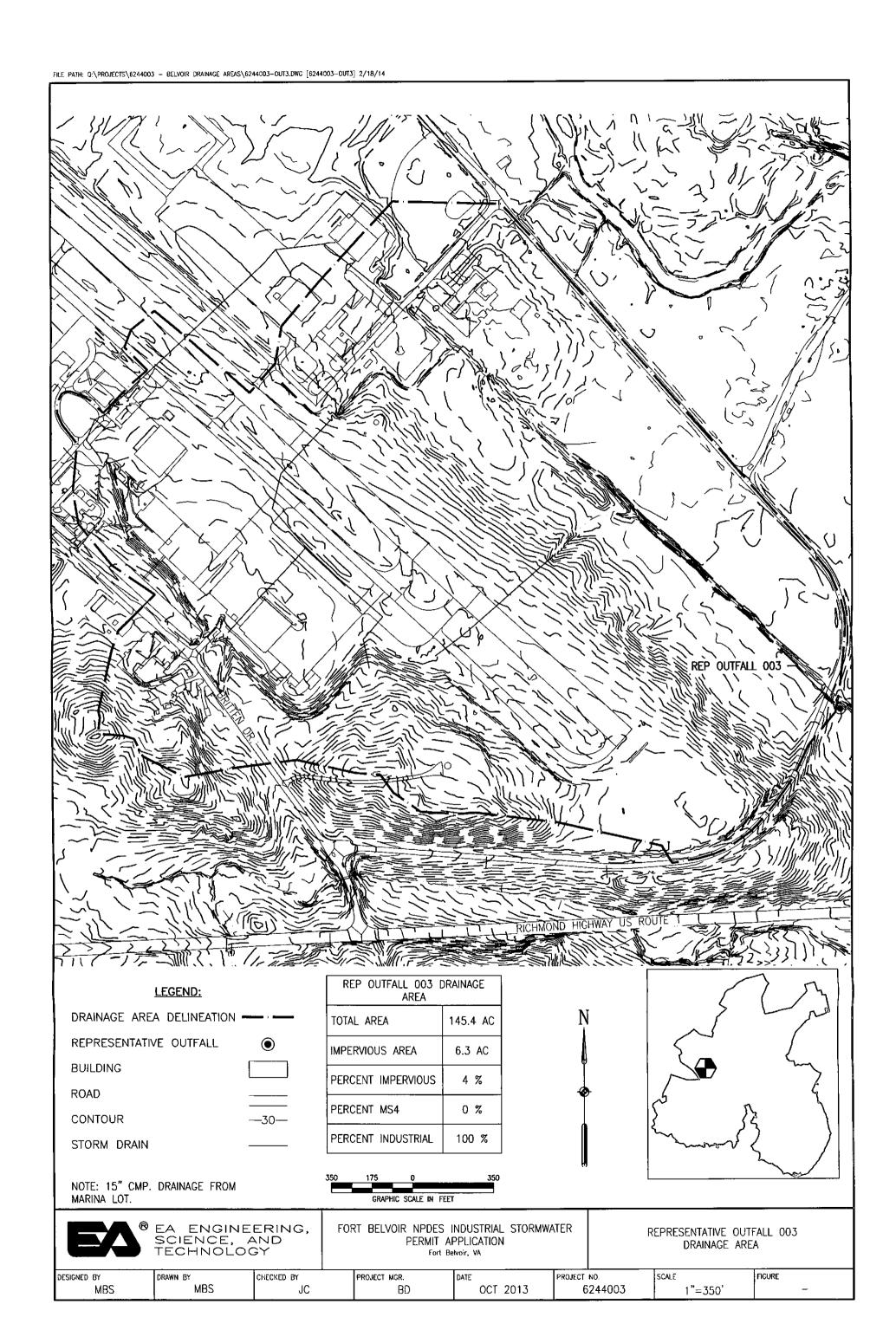
The purpose of this form is to notify the reader that portions of this document could not be scanned or stored with the document within DEQ's electronic filing system. The information below provides details for what portion of this document is stored separately and where it is stored.

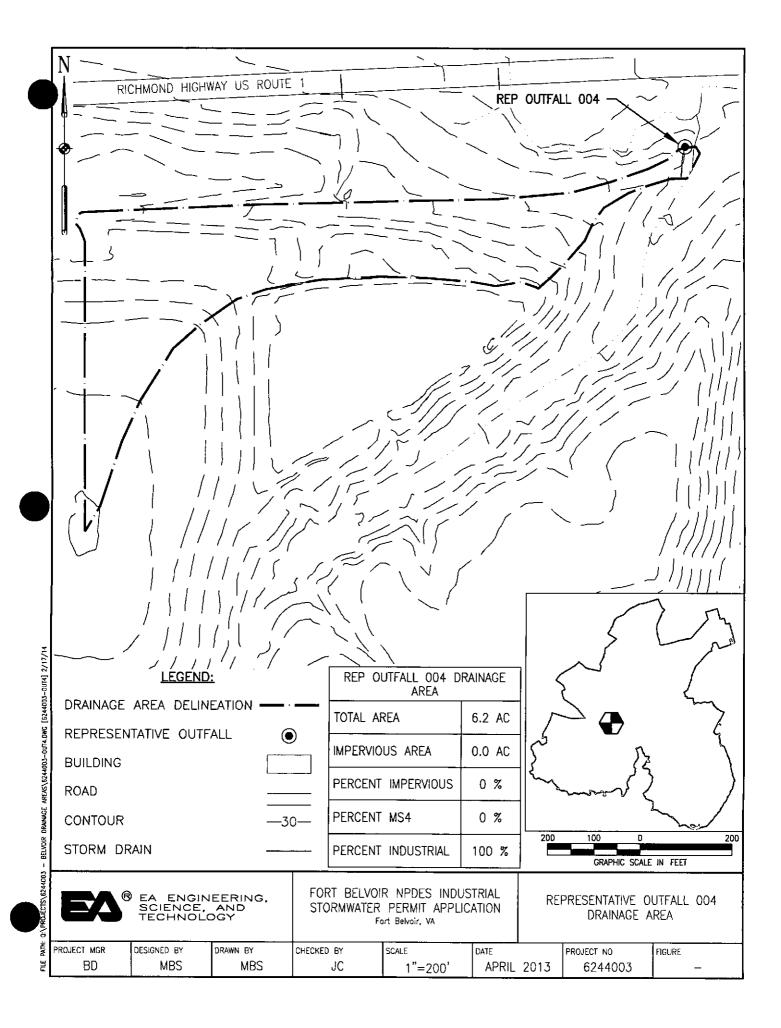
For access to the un-scanned portions of this document, please contact the Office Manager in the appropriate DEQ office location.

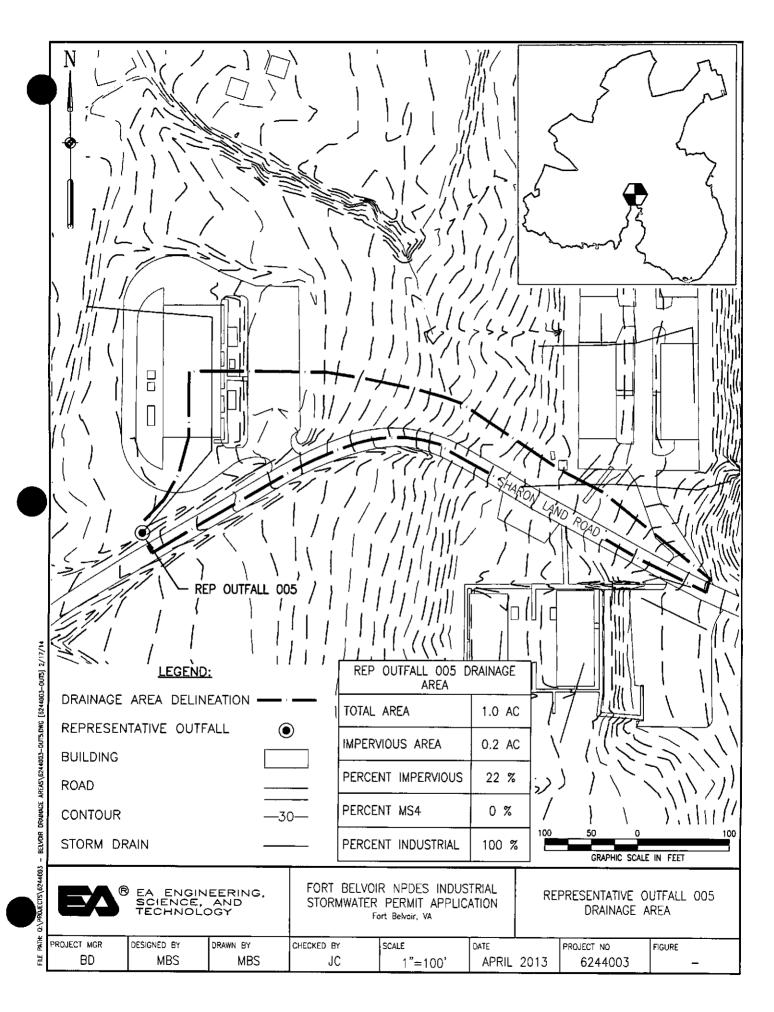
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	Pictures/Photos	Annan'dale Quad (1) USGS-Alexandria Qua		
	Plans (rolled)			
	Plans (flat)			
	Slides			
	Other			
**It is important to note that all documents and portions of those documents that <u>can</u> be scanned or submitted to FileNet <u>should be</u> . The list is <u>not</u> intended to indicate that certain types/formats should not be scanned. It is merely provided for the convenience of DEQ staff when processing documents.				
Select Office Location		□ BRRO-L         ☒ NRO         □ SWRO         □ VRO           □ BRRO-R         □ PRO         □ TRO         □ Central		
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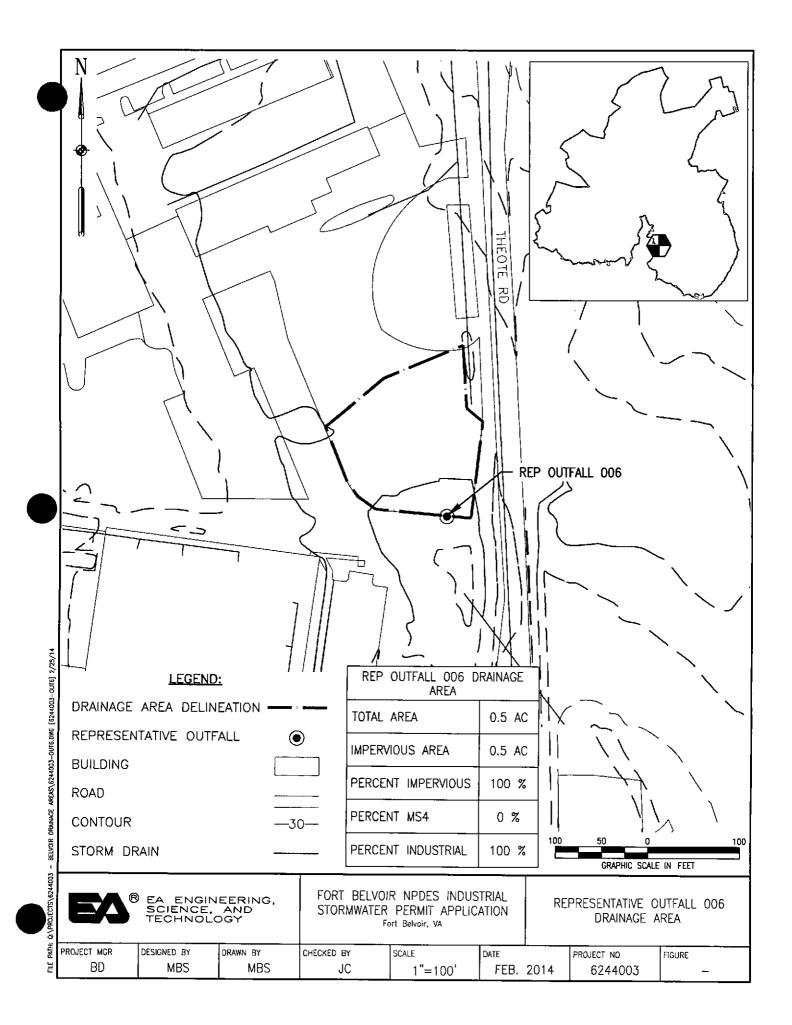












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DESIGNED BY

MBS

DRAWN BY

MBS

CHECKED BY

PROJECT MGR.

RΠ

DATE

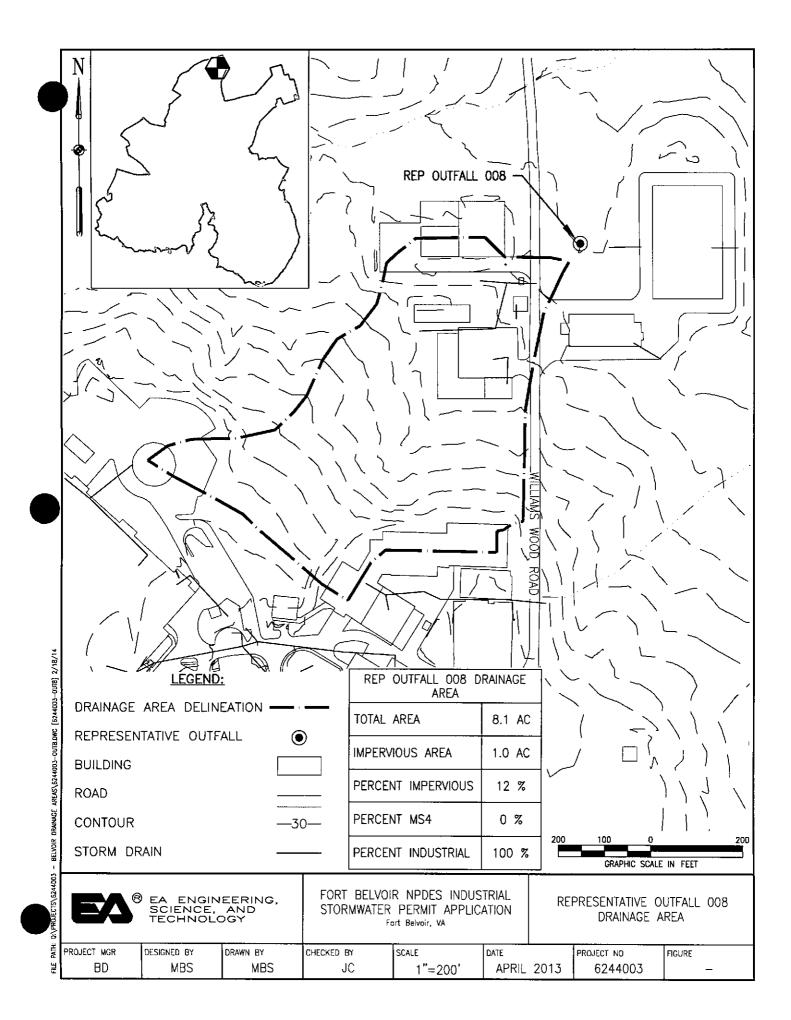
APRIL 2013

SCALE

FIGURE

PROJECT NO.

6244003



FILE PATH: Q:\PROJECTS\6244003 - BELVOIR DRAINAGE AREAS\6244003-0UT9.DWG [11X17] 2/18/14 LEGEND: DRAINAGE AREA DELINEATION REPRESENTATIVE OUTFALL BUILDING ROAD CONTOUR STORM DRAIN REP OUTFALL 009 DRAINAGE AREA 103 AC TOTAL AREA IMPERVIOUS AREA 5.8 AC PERCENT IMPERVIOUS 6 % PERCENT MS4 75 % PERCENT INDUSTRIAL 25 % NOTE: 36" RCP. GOLD COURSE. REP OUTFALL 009 GRAPHIC SCALE IN FEET <sup>®</sup> EA ENGINEERING, SCIENCE, AND TECHNOLOGY FORT BELVOIR NPDES INDUSTRIAL STORMWATER
PERMIT APPLICATION
Fort Belvoir, VA REPRESENTATIVE OUTFALL 009 DRAINAGE AREA

DESIGNED BY

MRS

DRAWN BY

MRS

CHECKED BY

PROJECT MGR.

DATE

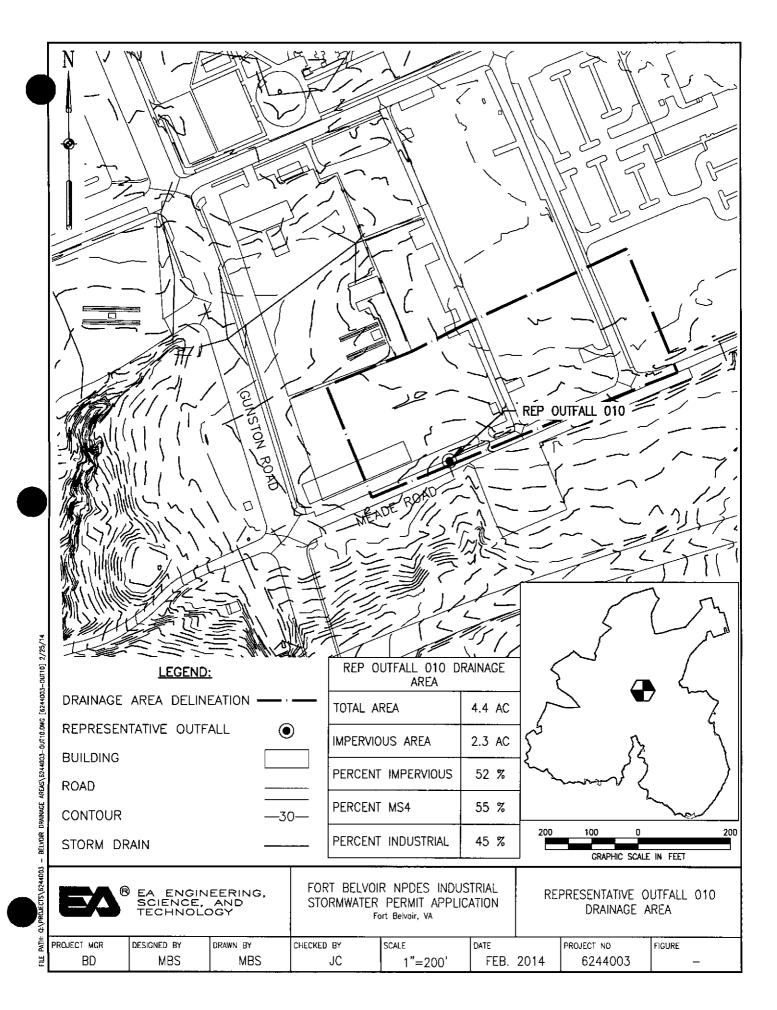
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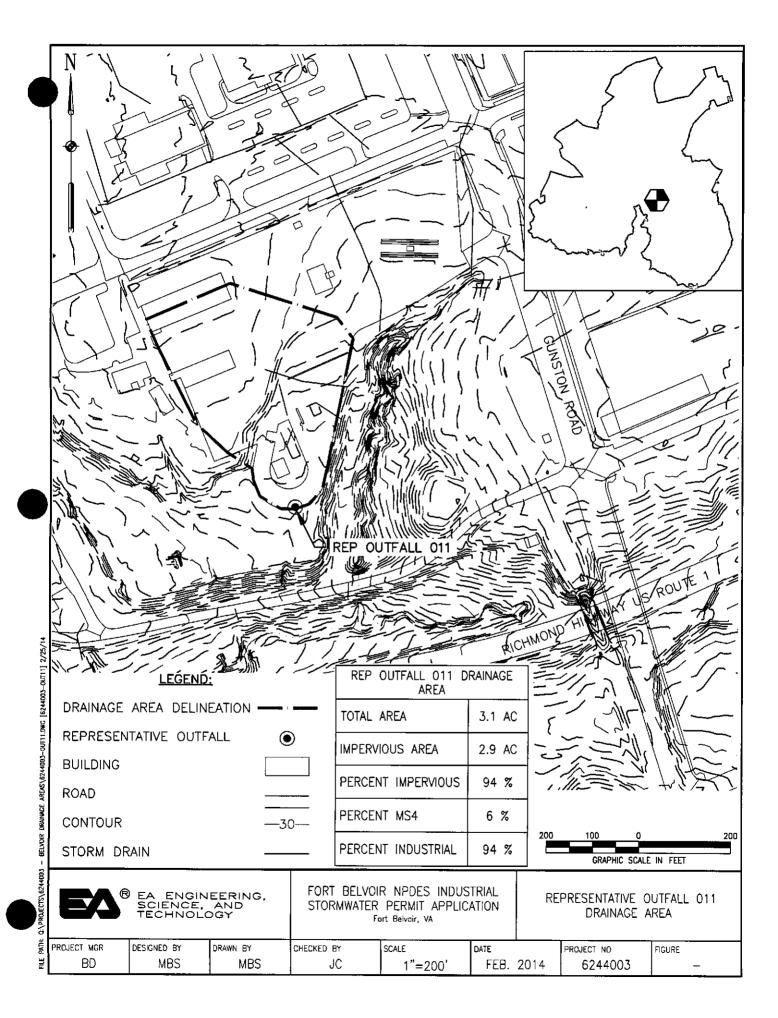
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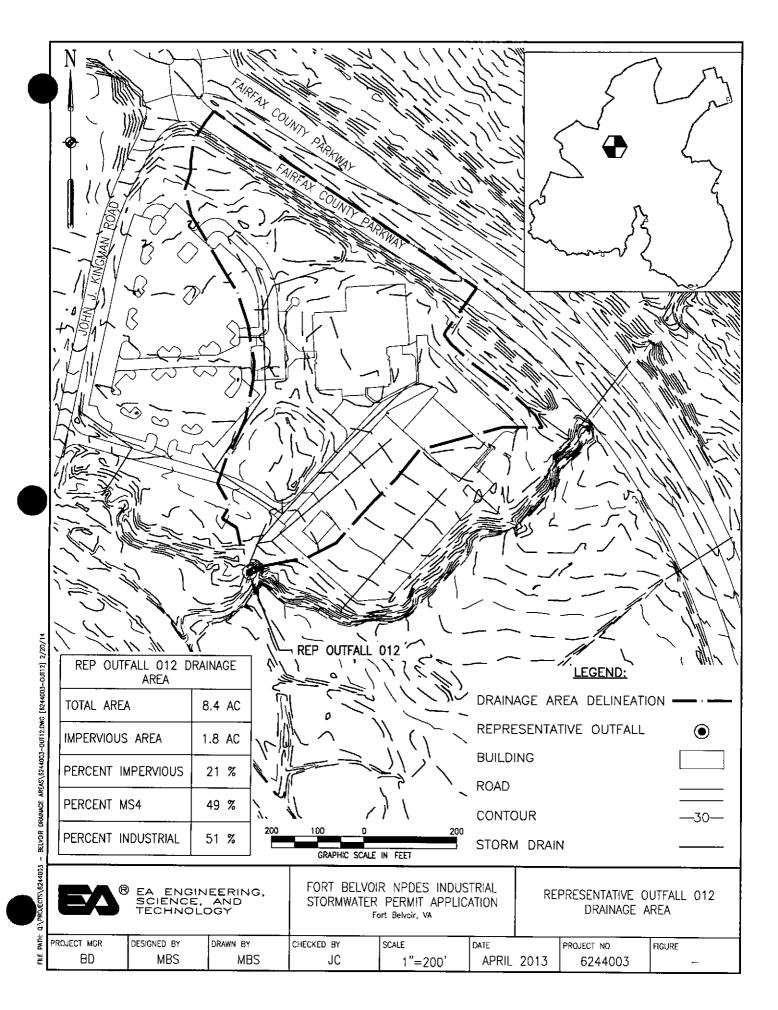
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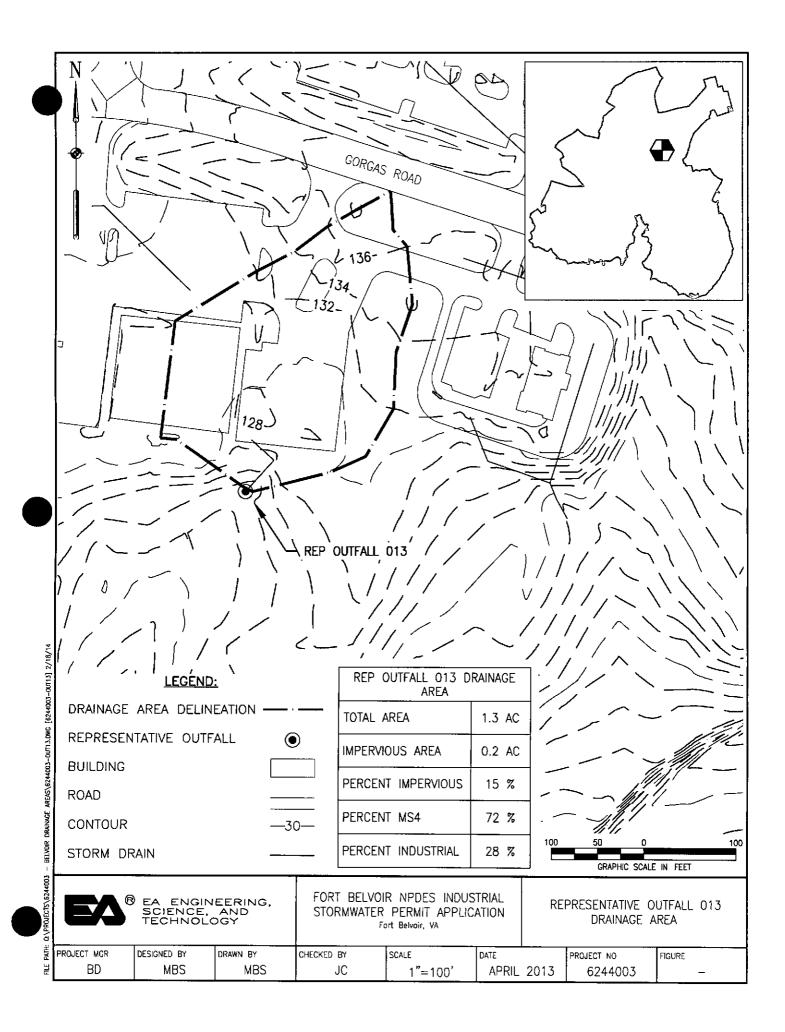
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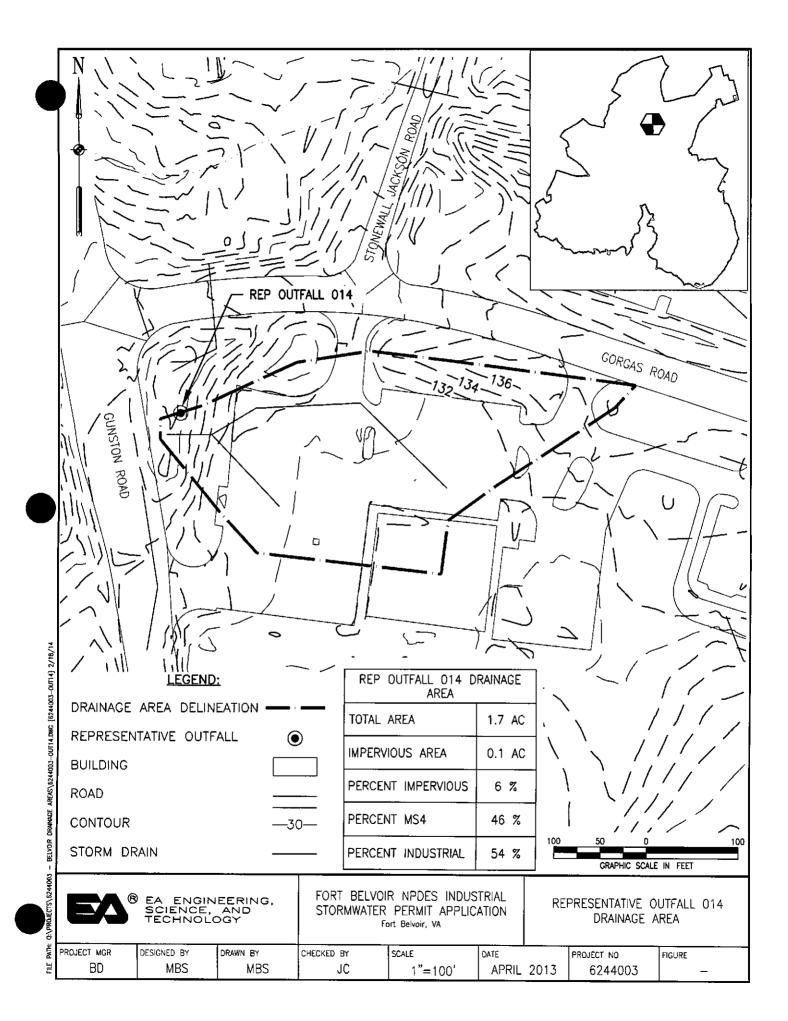
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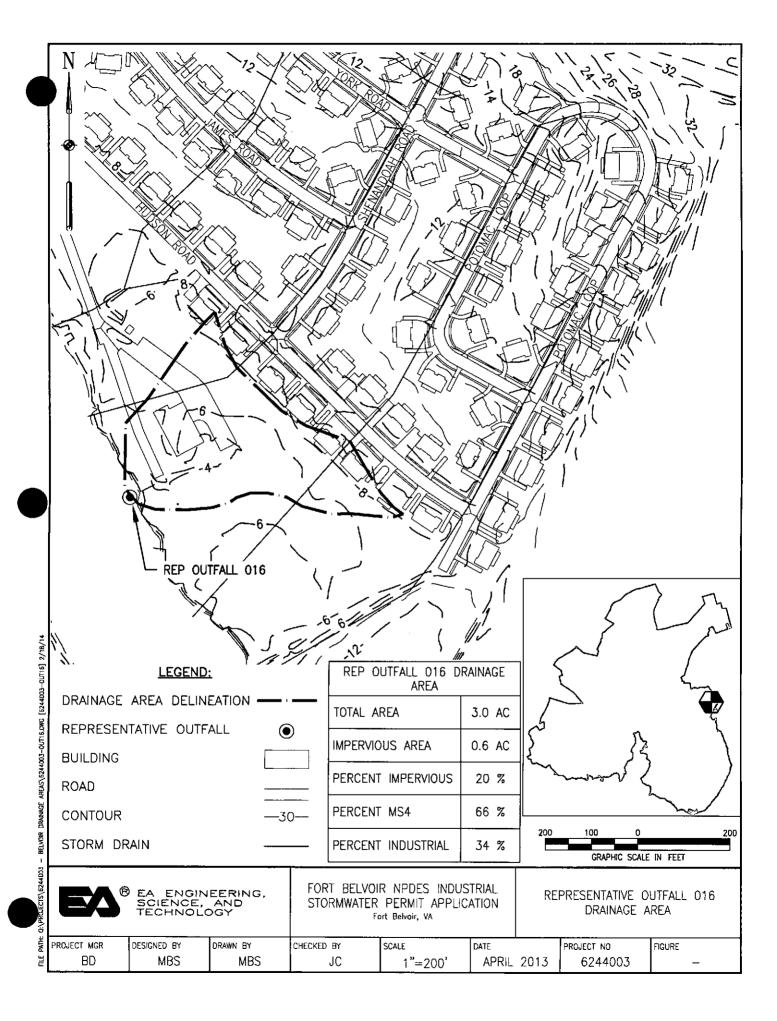


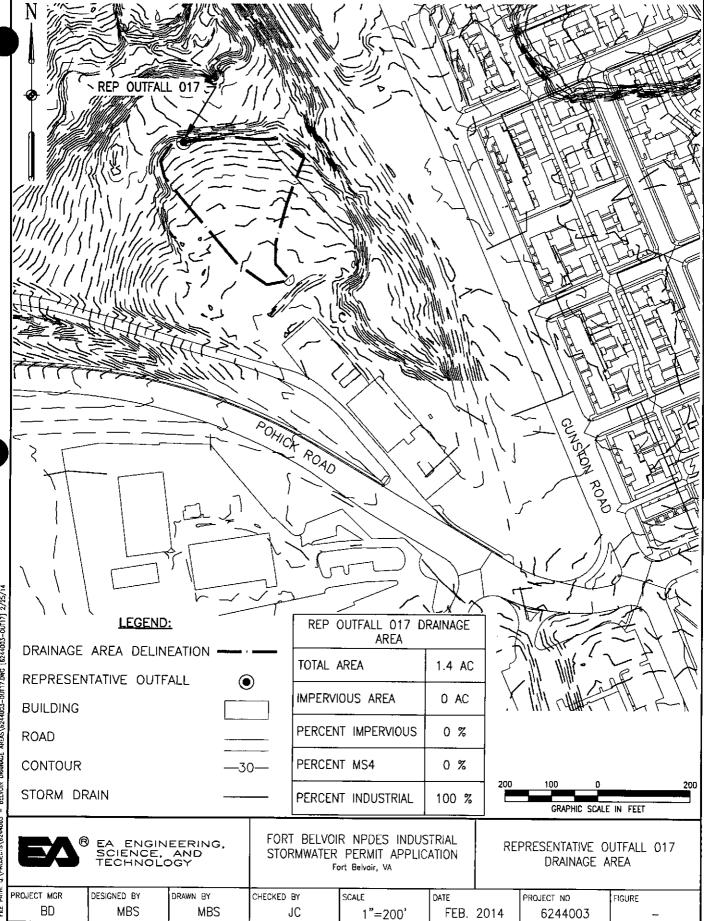




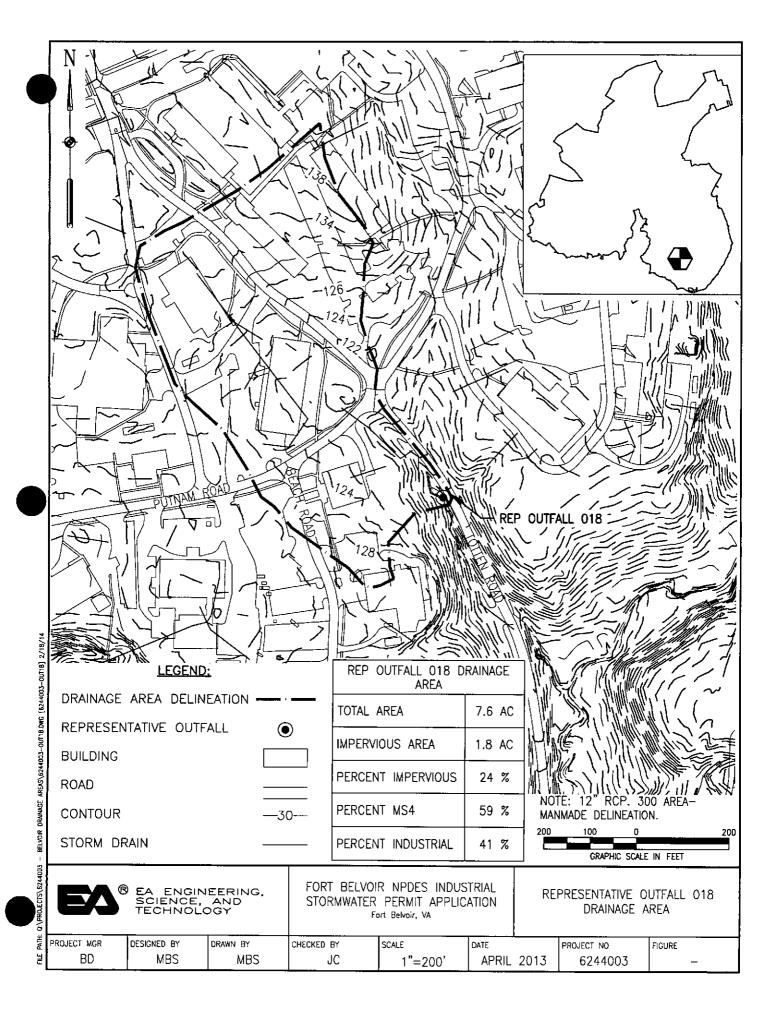


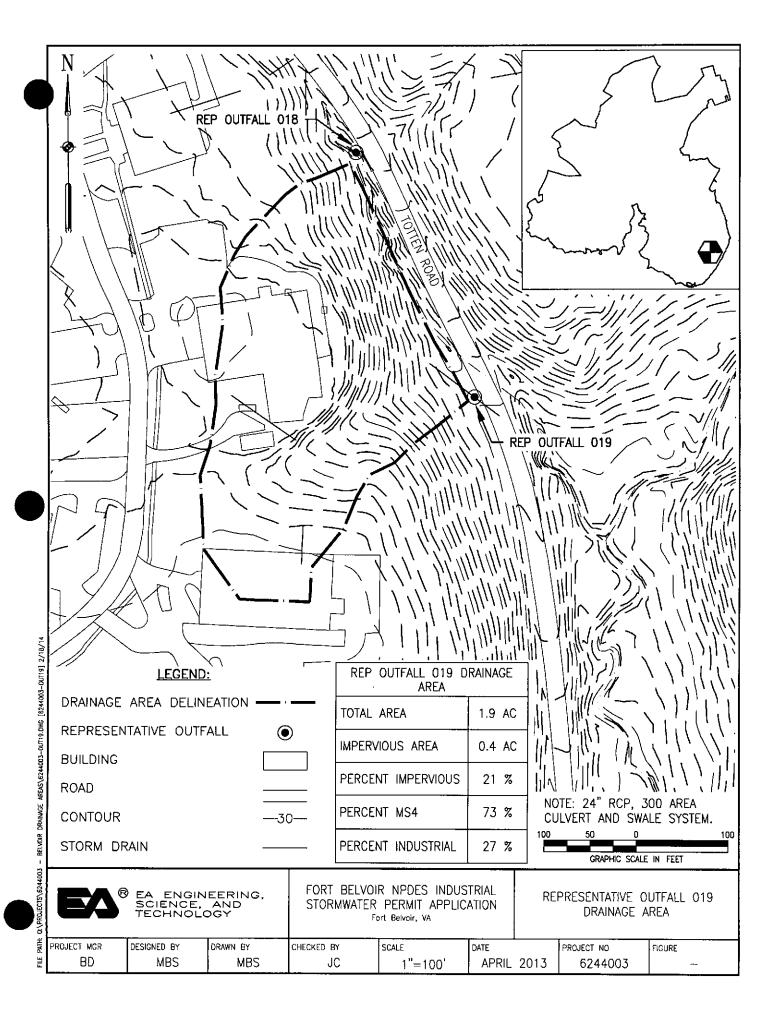


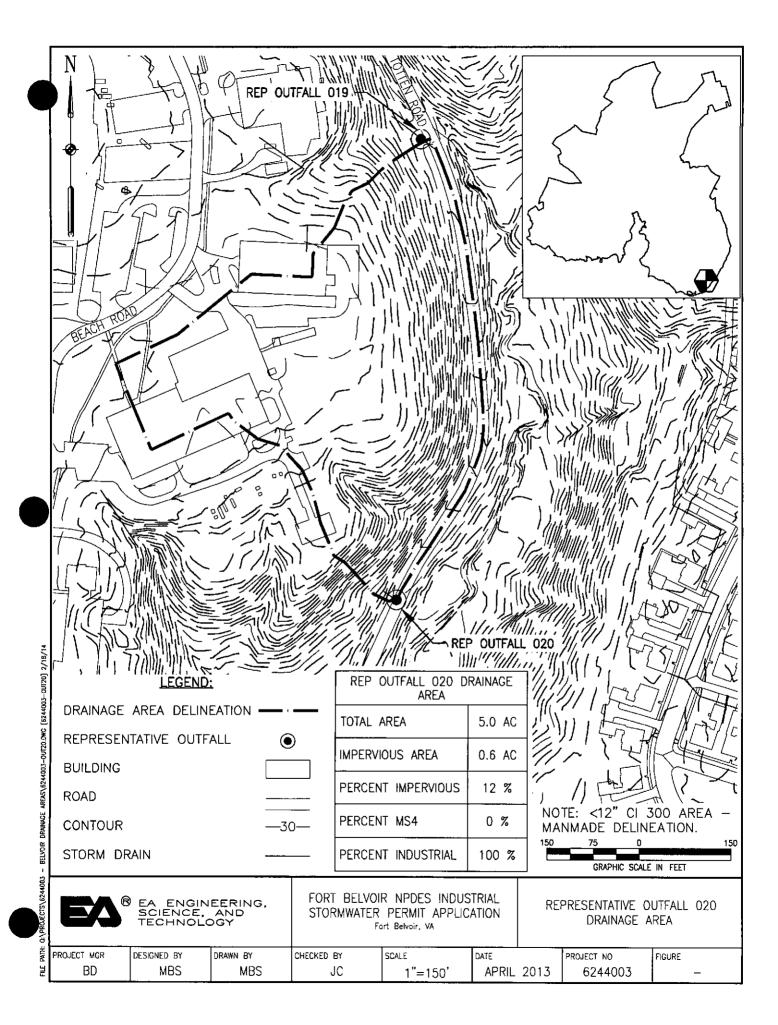


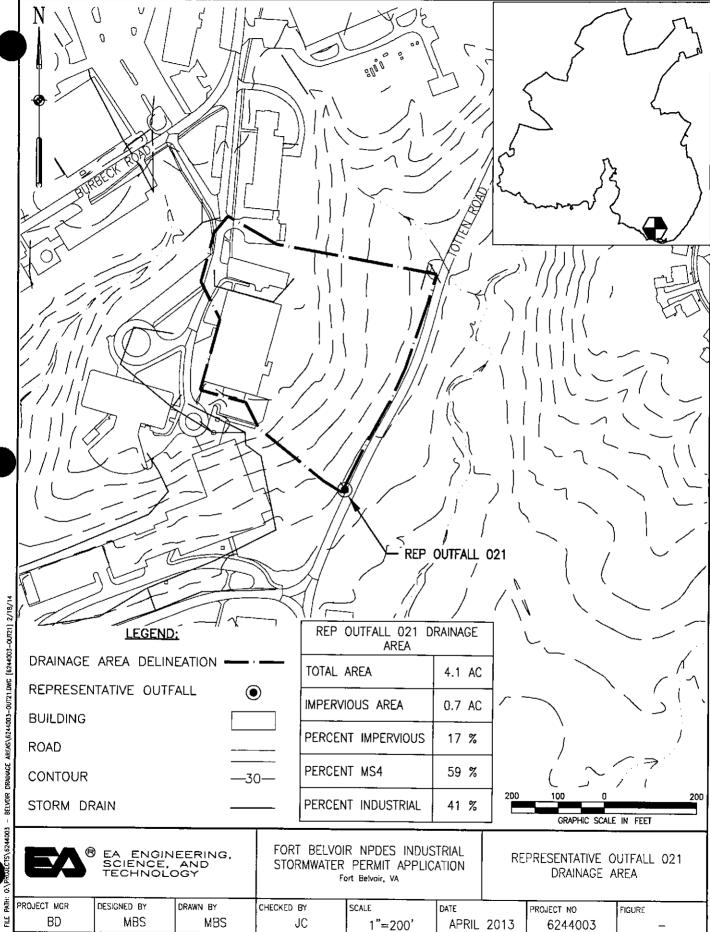


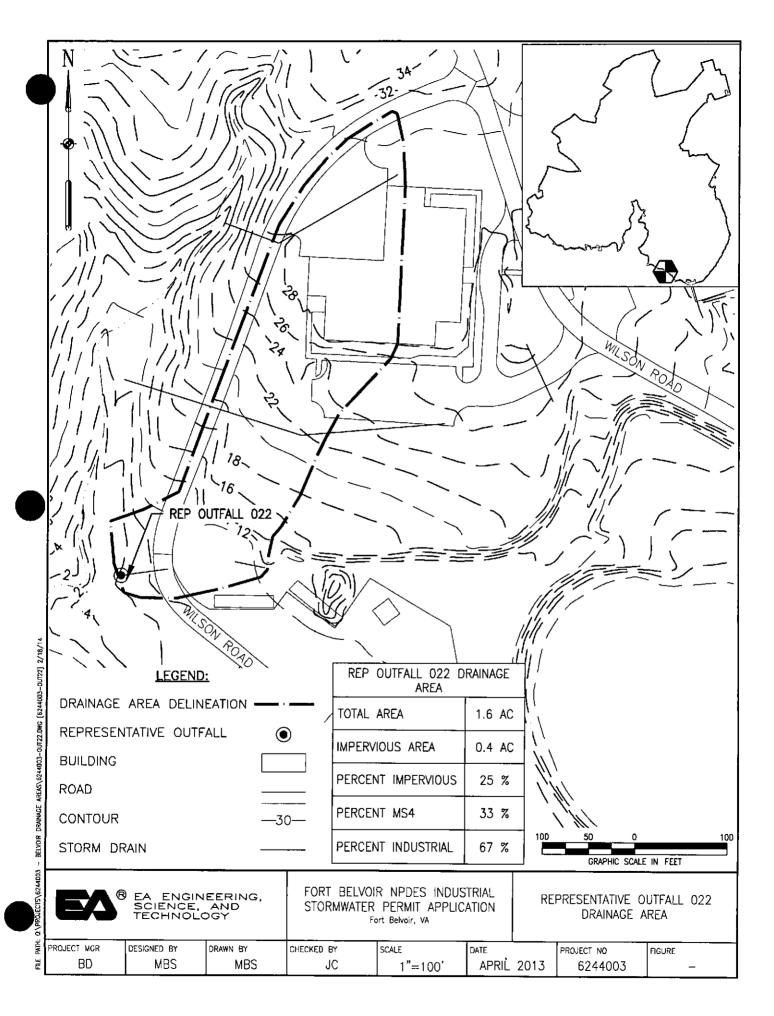
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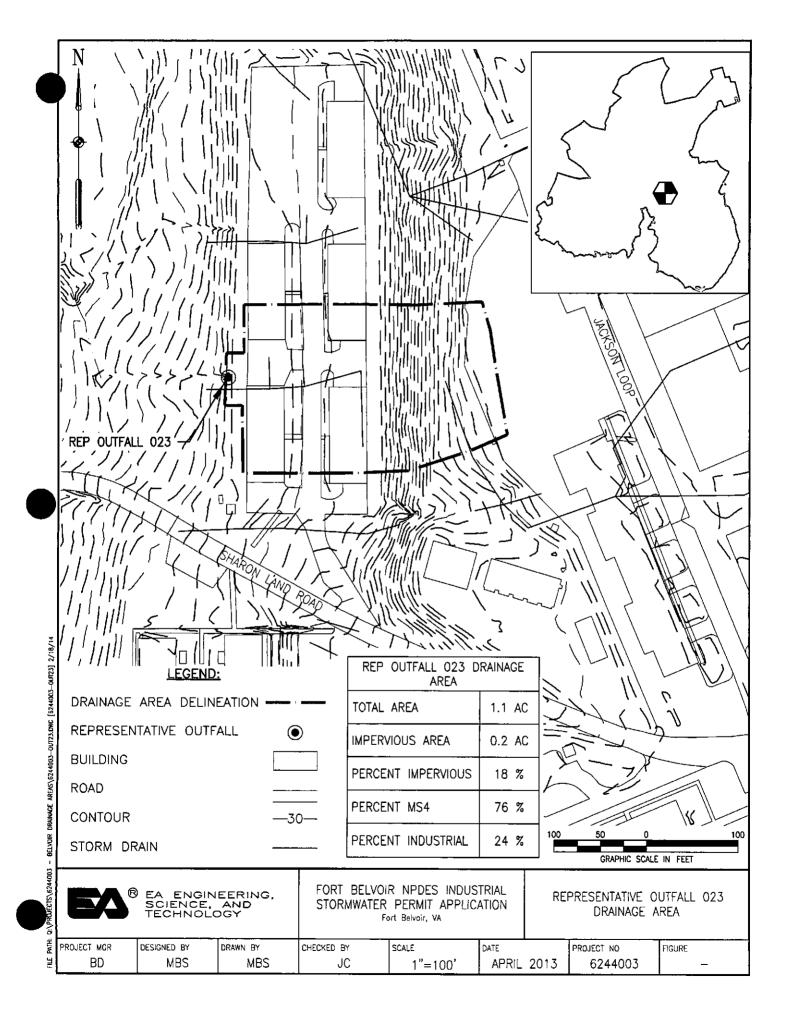


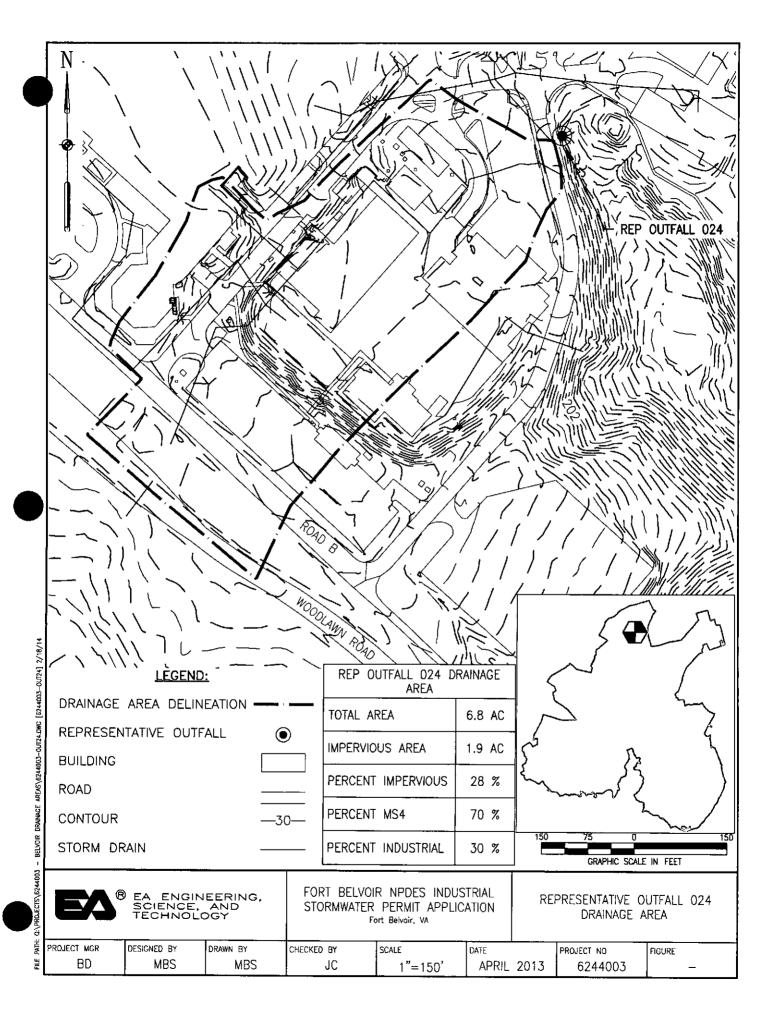


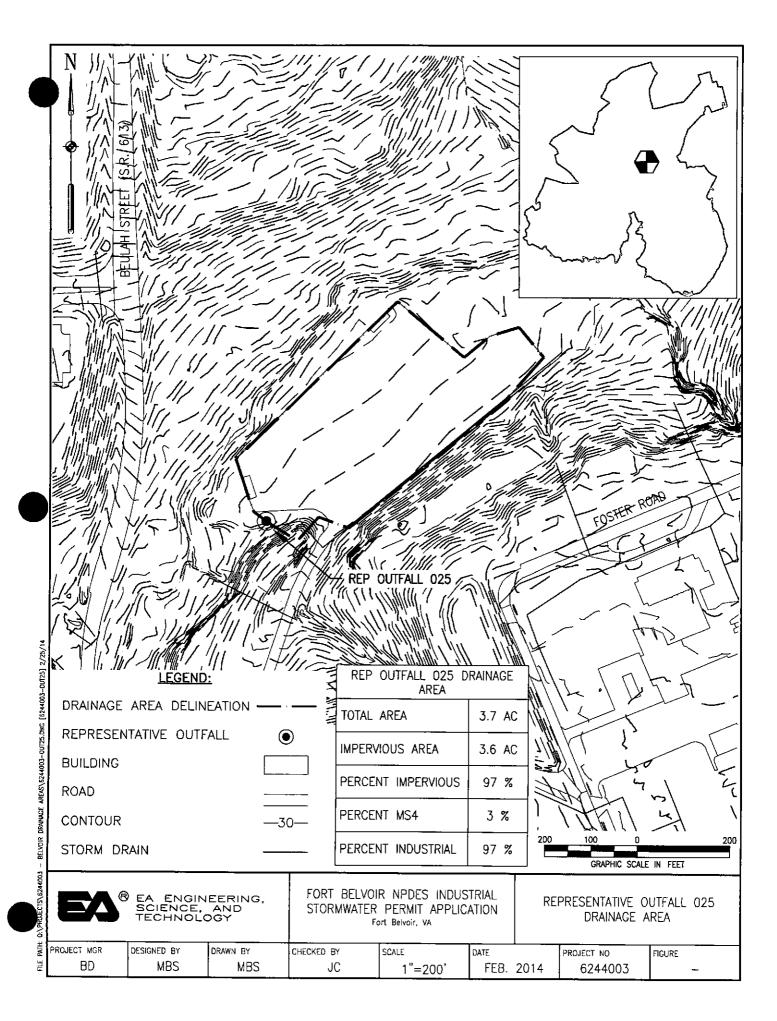


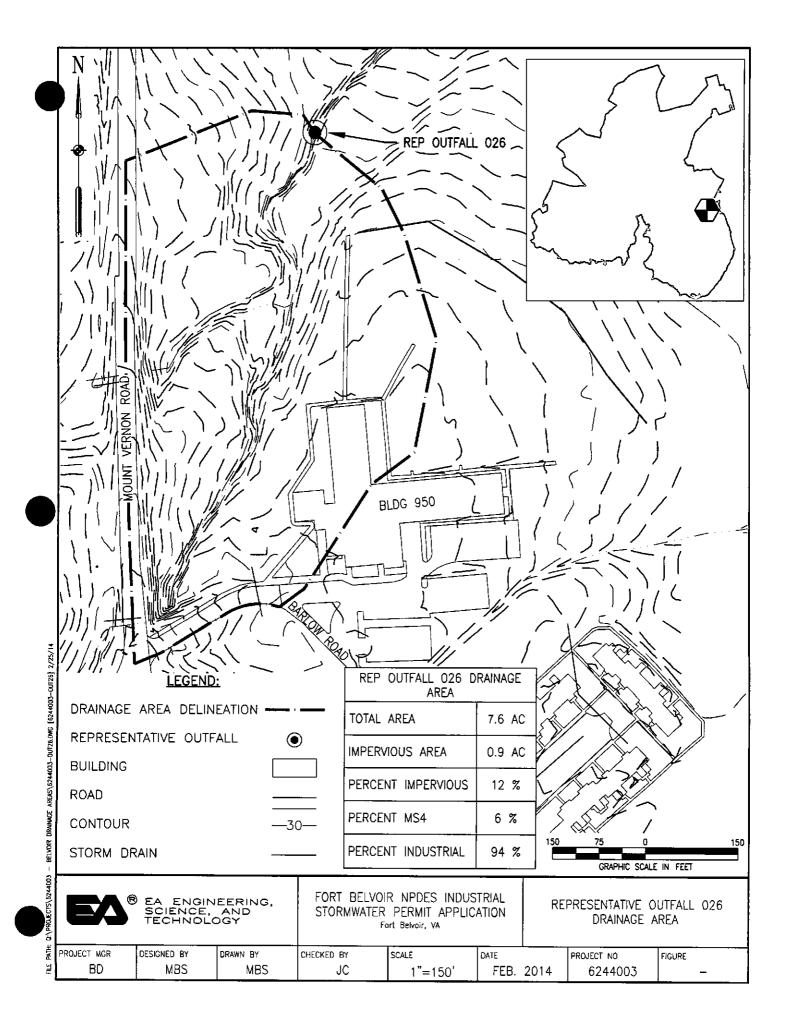


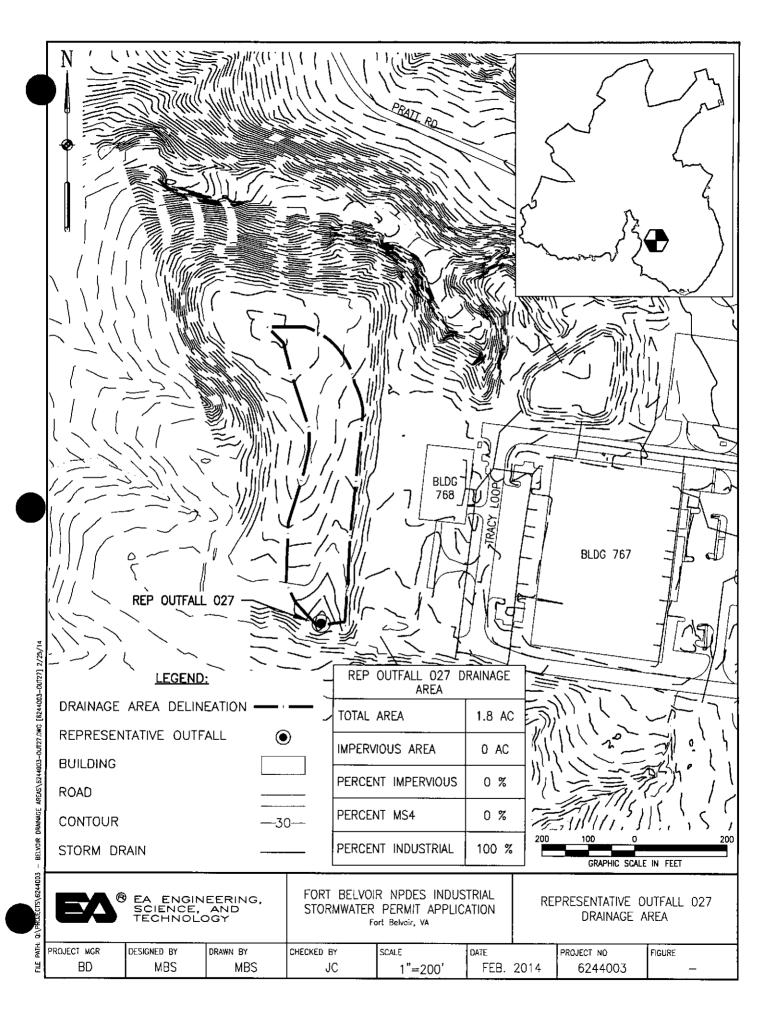


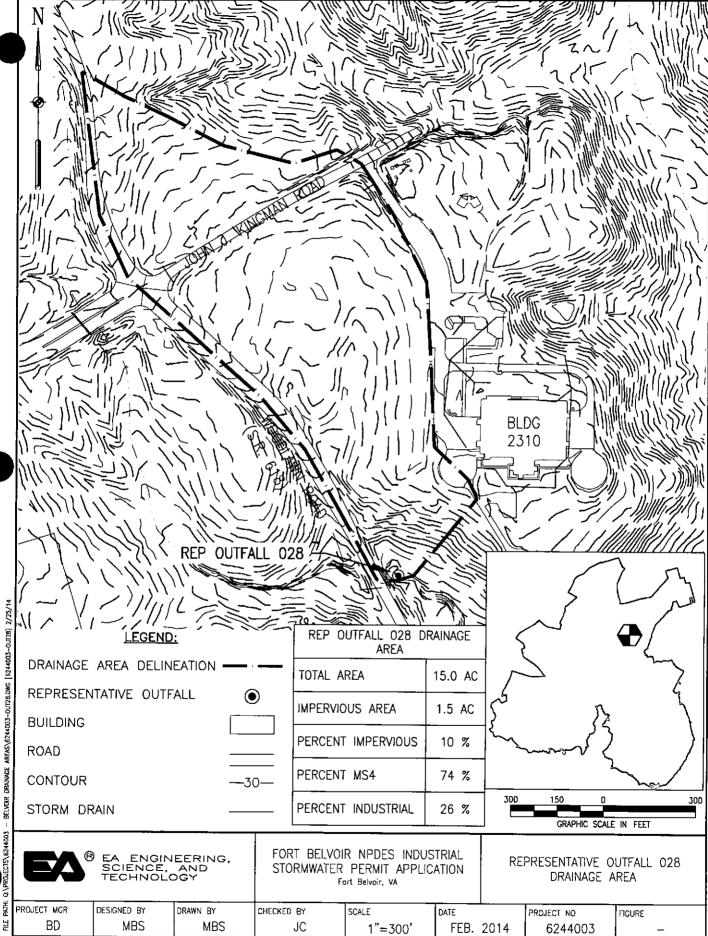


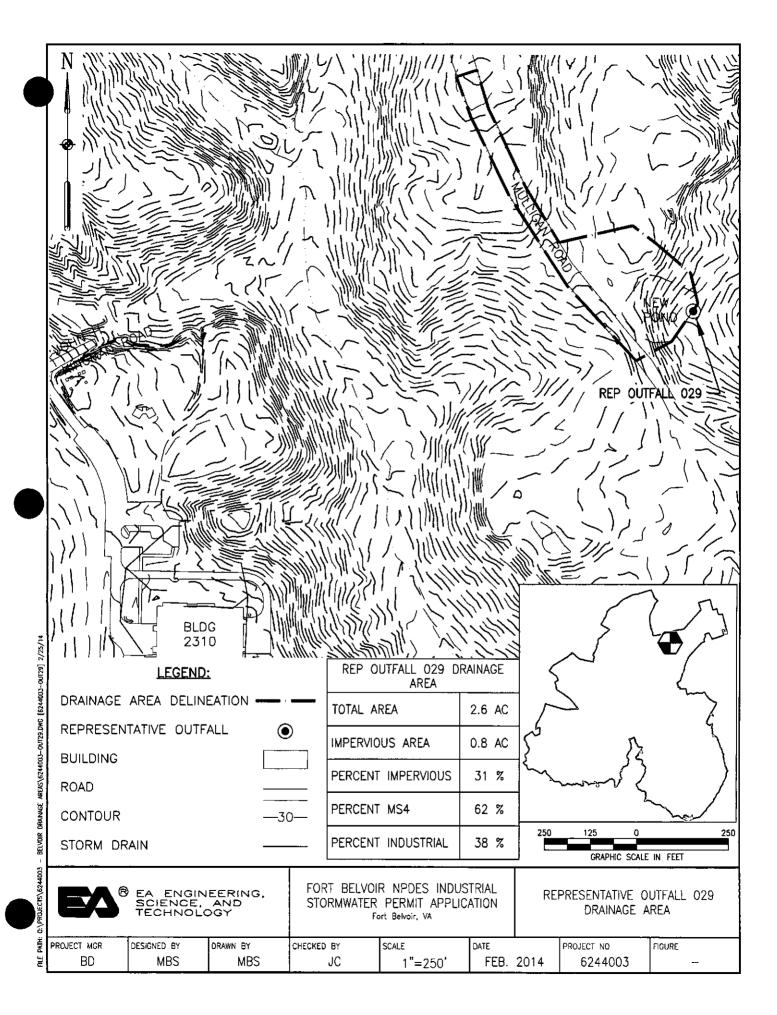


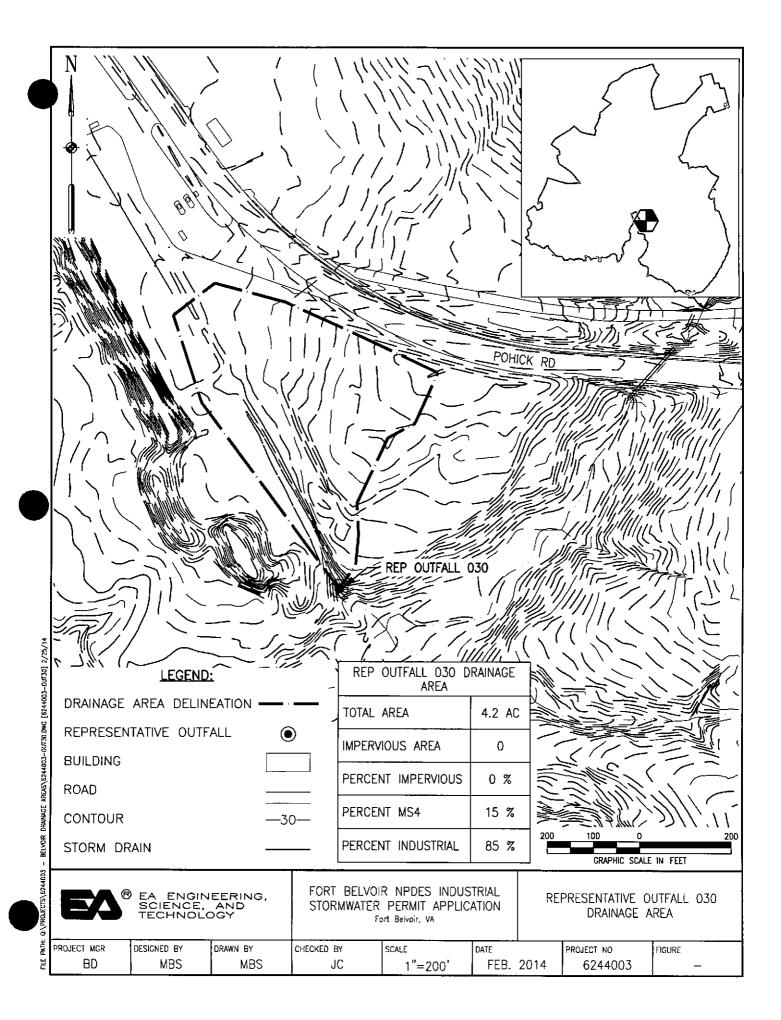


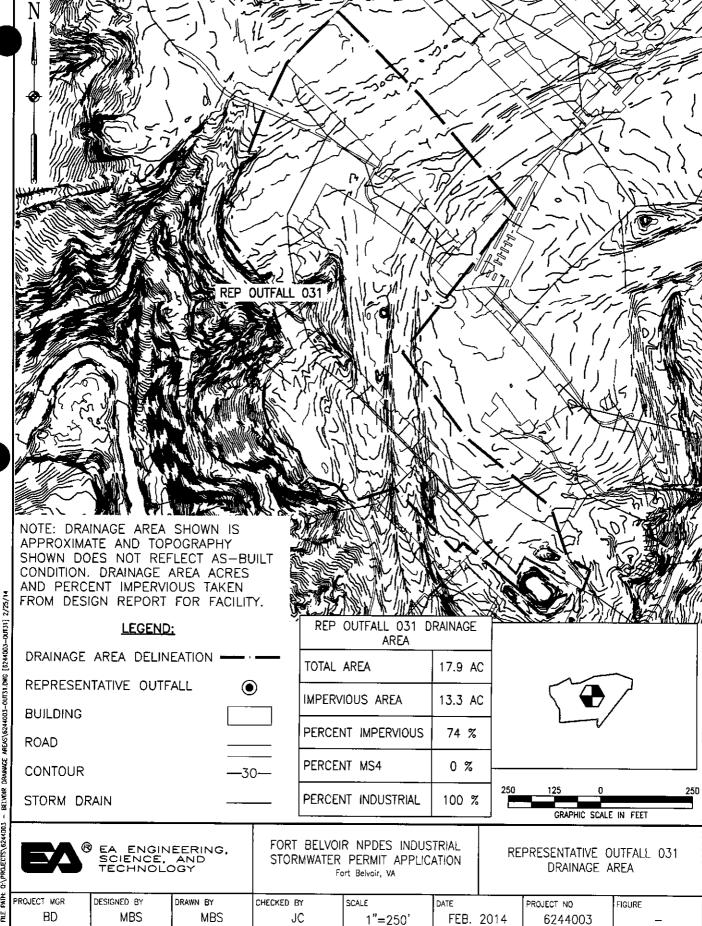












# ATTACHMENT 2F-IVA REPRESENTATIVE OUTFALL DRAINAGE AREA TABLE

### 3510-2F-IV: Narrative Description of Pollutant Sources

Table 3510-2F-IVA: Representative Outfall Drainage Area Table

Representative Outfall ID	Area of Impervious Surface (Acres)	Total Area Drained (Acres)	Percentage MS4	Percentage Industrial
001	0.2	5.1	0	100
002	0.5	19.1	0	100
003	6.3	145.4	0	100
004	0.0	6.2	0	100
005	0.2	1.0	0	100
006	0.5	0.5	0	100
007	10.4	56.1	96	4
008	1.0	8.1	0	100
009	5.8	103	75	25
010	2.3	4.4	55	45
011	2.9	3.1	6	94
012	1.8	8.4	49	51
013	0.2	1.3	72	28
014	0.1	1.7	46	_ <del></del> 54
015	12.9	70.3	90	10
016	0.6	3.0	66	34
017	0.0	1.4	0	100
018	1.8	7.6	59	41
019	0.4	1.9	73	27
020	0.6	5.0	0	100
021	0.7	4.1	59	41
022	0.4	1.6	33	67
023	0.2	1.1	76	24
024	1.9	6.8	70	30
025	3.6	3.7	3	97
026	0.9	7.6	6	94
027	0.0	1.8	0	100
028	1.5	15.0	74	26
029	0.8	2.6	62	38
030	0.0	4.2	15	85
031	13.3	17.9	0	100
Total Representative Drainage	71.8	519.0		

## ATTACHMENT 2F-IVB SIGNIFICANT MATERIALS

#### 3510-2F-IVB: Significant Materials

A record of program areas, materials, location and loading/access areas, application, permit contact, and method of treatment, storage, or disposal is listed in Table 3510-2F-IVB: Significant Materials.

Table 3510-2F-IVB-1: Generalized Significant Materials lists all general materials, form, previous method of treatment, storage and disposal, and management practices to minimize contact with stormwater.

Table 3510-2F-IVB-2: Material Loading/Access Areas lists the identified potential risk areas associated with the delivery and transfer of bulk hazardous material.

Table 3510-2F-IVB-3: Herbicides, Pesticides, Soil Conditioners, and Fertilizers lists the various specific chemicals that are known to be used as needed on the installation, as reported by Fort Belvoir, or individually contracted and subcontracted task management.

Table 3510-2F-IVB: Significant Materials

Program Area	Material Treated/ Stored/ Disposed	Location of Storage/ Materials Loading and Access Areas	Substance Applied?	Fort Belvoir Program/ Permit Contact	Method of Treatment, Storage, or Disposal
EC - Petroleum	JP-8 Fuel	Davison Army Airfield (DAAF) Building 3161/3162	No	John Mays	DAAF has two 13,000-gallon JP-8 underground storage tanks (USTs). No other oil or grease petroleum products are stored at this location.
EC - Petroleum	E-85	16 <sup>th</sup> Street Fuel Station (Building 1124)	No	John Mays	16 <sup>th</sup> Street Fueling Station (Building 1124) has one 12,000-gallon UST of E-85 fuel.
EC - Petroleum	Used Oil	16 <sup>th</sup> Street Fuel Station (Building 1124)	No	John Mays	16 <sup>th</sup> Street Fueling Station (Building 1124) has one 12,000-gallon UST of used oil.
EC - Petroleum	Diesel Fuel	16 <sup>th</sup> Street Fuel Station (Building 1124)	No	John Mays	16 <sup>th</sup> Street Fueling Station (Building 1124) has one 30,000-gallon UST of Diesel.

•	Program Area	Material Treated/ Stored/ Disposed	Location of Storage/ Materials Loading and Access Areas	Substance Applied?	Fort Belvoir Program/ Permit Contact	Method of Treatment, Storage, or Disposal
	EC - Petroleum	Gasoline	16 <sup>th</sup> Street Fuel Station (Building 1124)	No	John Mays	16 <sup>th</sup> Street Fueling Station (Building 1124) has one 30,000-gallon UST of Gasoline.
	EC - Petroleum	Kerosene	16 <sup>th</sup> Street Fuel Station (Building 1124)	No	John Mays	16 <sup>th</sup> Street Fueling Station (Building 1124) has two 500-gallon aboveground storage tanks (ASTs) of Kerosene.
	EC - Petroleum	Gasoline	12 <sup>th</sup> Street Fuel Station (Building 1197)	No	John Mays	12 <sup>th</sup> Street Fueling Station (Building 1197) has one 20,000-gallon UST and two 10,000-gallon UST of Gasoline.
	EC - Petroleum	Heating Oil	12 <sup>th</sup> Street Fuel Station (Building 1197)	No	John Mays	12 <sup>th</sup> Street Fueling Station (Building 1197) has one 1,000-gallon UST of used oil.
	EC - Petroleum	Used Oil	12 <sup>th</sup> Street Fuel Station (Building 1197)	No	John Mays	12 <sup>th</sup> Street Fueling Station (Building 1197) has one 500-gallon UST of used oil.
	EC - Petroleum	Diesel Fuel	Belvoir North Area, Central Utility Plant	No	John Mays	Belvoir North Area Central Utility Plant has one 10,000-gallon AST and six 30,000-gallon ASTs of Diesel. No other oil or grease petroleum products are stored at this location.
	EC - Petroleum	Gasoline	Army and Air Force Exchange Service (AAFES) Class VI Gas Station (Building 2304)	No	John Mays	AAFES Class VI Gas Station (Building 2304) has four 12,000-gallon USTs of Gasoline. No other oil or grease or petroleum products are stored at this location.

Program Area	Material Treated/ Stored/ Disposed	Location of Storage/ Materials Loading and Access Areas	Substance Applied?	Fort Belvoir Program/ Permit Contact	Method of Treatment, Storage, or Disposal
EC - Petroleum	Gasoline	AAFES Shoppette and Gas Station (South Post)	No	John Mays	AAFES Class Shoppette and Gas Station (South Post) has one 12,000-gallon UST, one 10,000-gallon UST, and one 20,000-gallon UST of Gasoline. No other oil or grease or petroleum products are stored at this location.
NR - Pesticide	Rodeo	Pesticide Building (Building 1496)	Yes	Steve Watters	Rodeo is a non-selective (liquid) herbicide used to control vegetation. This herbicide is applied by the government contractor to aquatic invasive species.
NR - Pesticide	Roundup	Pesticide Building (Building 1496)	Yes	Steve Watters	Roundup is a non- selective (liquid) herbicide used to control vegetation. This herbicide is applied by the government contractor to fence lines, sidewalks, curbs, parking lots, road shoulders, transformer pads, etc.
NR - Pesticide Habitat		Pesticide Building (Building 1496)	Yes	Steve Watters	Habitat is a non-selective (liquid) herbicide used to control vegetation. This herbicide is applied by the government contractor to aquatic invasive species.
NR - Pesticide	l Bu		Yes	Steve Watters	BTi is a mosquito larvicide (solid) that is used in and around stormwater areas to control the propagation of mosquitos. This larvicide is applied by an outside contractor.

Program Area	Material Treated/ Stored/ Disposed	Location of Storage/ Materials Loading and Access Areas	Substance Applied?	Fort Belvoir Program/ Permit Contact	Method of Treatment, Storage, or Disposal
NR - Pesticide	Altoside XR	Pesticide Building (Building 1496)	Yes	Steve Watters	Altoside is a mosquito larvicide (solid) that is used in areas that are NOT surrounded by stormwater, to control the mosquitos. This larvicide is applied by an outside contractor.

Table 3510-2F-IVB-1: Generalized Significant Materials

Material Treated/Stored/ Disposed	Form	Previous Method of Treatment/Storage/ Disposal	Management Practice to Minimize Contact with Stormwater
Waste Oils	Liquid	Outdoor AST/drums	Stored under cover/in sealed drums; corroded ASTs replaced.
Universal Waste Batteries	Solid	Outdoor storage	Proper Procedure Training; storage indoors/under cover with proper labeling.
Motor Gasoline (MOGAS), Diesel, JP-8, Lubricant Oils, Petroleum	Liquid	AST/UST/drums	Stored in sealed tanks/drums; utilized under protective covers; AST replacement.
Fertilizer	Solid	Outdoor storage, open containers	Integrated Pest Management Program; materials stored under cover.
Pesticides	Liquid/Solid	Outdoor storage, open containers	Performed via contract; per-day usage, excess disposed offsite at contractor expense.
Hazardous Waste	Solid/Liquid	Outdoor storage	Stored under cover/In sealed drums; performing routine pickup and disposal of garbage and waste materials; regular Inspections of sites.
Removed Runway Rubber	Solid	Outdoor storage	Closed/covered storage/disposable container.
Detergents	Liquid	Discharging into storm drains	Washing is conducted in specified washing areas with proper discharge.
Metallic Waste	Solid	N/A	Performing routine pickup and disposal of garbage and waste materials.
Fire Retardant Chemicals	Liquid	N/A	Indoor storage.
Salt	Solid	Salt domes, outdoor stock piles	Salt dome buildings, indoor storage, covered storage.
Deicers	Liquid	N/A	Closed/covered storage/disposable container.

Table 3510-2F-IV-B-2: Material Loading/Access Areas

Building Number	Area Designation	Description of Activity
1124	16 <sup>th</sup> Street Fueling Area	Offloading and storage of various fuels and oil products.
1197	12 <sup>th</sup> Street Service Station	Offloading and storage of various fuels and oil products.
1495	HAZMART Building	Offloading and storage of hazardous waste.
1496	Pest Shop	Offloading and storage of various herbicides, pesticides, and related chemicals.
3162	DAAF Fuel Island	Offloading and storage of various fuels and oil products.

### Table 3510-2F-IV-B-3: Herbicides, Pesticides, Soil Conditioners, and Fertilizers

Due to the size and nature of the installation, Fort Belvoir uses herbicides, pesticides, soil conditioners, and fertilizers infrequently as needed in multiple areas throughout the installation. The usage of these chemicals is performed by installation contractors under the auspices of Fort Belvoir. Materials are brought onsite as needed, with wastes disposed of offsite by said contractors.

Material	Location	Manner	Frequency	
Herbicides	Varies/ installation-wide	Spray and solid/varies	As needed.	
Pesticides	Varies/ installation-wide	Spray and solid/varies	As needed.	
Soil Conditioners	Varies/ installation-wide	Spray and solid/varies	As needed.	
Fertilizers	Varies/ installation-wide	Spray and solid/varies	As needed.	

# ATTACHMENT 2F-IVC STRUCTURAL AND NON-STRUCTURAL CONTROL MEASURES

#### Table 3510-2F-IVC-1: Structural Control Measures

This section presents the structural and the non-structural control measures used at Fort Belvoir for stormwater management. Following this, the control measures applied at specific stormwater outfalls are presented for each drainage area.

Structural Control Measures				
Oil/Water Separators (OWSs)	Density separation devices designed to separate oil and suspended solids from the wastewater before discharge.			
Stormwater (SW) Systems	Stormwater pipes, manholes, culverts, junctions, outfalls and associated swales, weirs, retention ponds, dry ponds; includes any and all other structures associated with SW drainage basins.			
Wastewater (WW) Systems	Wastewater piping, plumbing, pump stations, pump valves, check valves, manholes, junctions, treatment plants; includes any and all structures used purely for handling WW transport and recycling so as to be separate from SW systems or prevent surcharge during normal and high-flow or high-usage times.			
Drainage Trenches	Prevent entry of debris and sludge to stormwater systems.			
Catch Basins (Building and Grounds Maintenance)	Used in sump areas to collect debris and prevent clogging and pollution of the pipeline.			
Catch Basins (Cleaning areas)	These basins include gate valves for collection and recycling of wash water and detergents.			
Erosion Controls	Dry Swales, Grassed Channels, Biofilters (naturally control pollution and involve biological regulation), weirs, retention ponds, SW systems.			
Enclosed Waste Control Areas (Berms, etc.)	Prevent spills and leaks from contaminating stormwater drainage systems.			
Covered loading/unloading and material handling areas	Prevent rain and weather elements from enabling contact and rinsing with drainage systems.			
Retention ponds, Best Management Practice (BMP) retention ponds	Collect and retain runoff before releasing it into drainage systems and streams. They release the water at natural flow rates, and provide pollutant removal through settling and biological uptake. These are inspected (and if necessary, cleaned) on a 1-, 2-, 5-, 10-, and 20-year rotation.			
Infiltration trenches	Rock-filled trenches with no outlet that receive stormwater runoff, and include flood control, channel protection, groundwater recharge, and pollutant removal.			
Deicing areas/pads	Centralized collection areas for isolating, collecting, and containing contaminated stormwater runoff.			
Point-Source Control Systems	Potentially add "end of pipe" control systems if applicable; for example, Hydro-Kleen filters, weirs, BMP retention ponds with or without forebays, etc.			

Table 3510-2F-IVC-2: Non-Structural Control Measures

Non-Structural Control Measures				
Spill Prevention Plans	Fort Belvoir currently has both a Stormwater Pollution Prevention Plan (SWPPP) and a Master Spill Plan. These documents are applicable to drainage areas across the entire installation with potential discharge sensitivity. Discharge response techniques of petroleum products and hazardous materials (HAZMATS) are addressed.			
Pollution Prevention Commitment	A Pollution Prevention (P2) team provides a forum for identifying and addressing stormwater pollution concerns, and to ensure that the SWPPP and BMPs are appropriately implemented.			
Employee Training	Pollution Prevention training is coordinated through the P2 team, and is conducted annually. Training topics include spill response, elimination of non-stormwater discharges, material management practices, good housekeeping, BMP operation and maintenance, reporting, and other relevant pollution prevention topics.			
Visual Inspections	Routine visual inspections are performed by qualified individuals who regularly inspect the areas of the installation where industrial materials or activities are exposed to stormwater. Annual Comprehensive Compliance inspections were completed for existing permit (VAR051080) and are fully compliant. In addition, Fort Belvoir completed in 2012 a comprehensive inventory inspection of all SW structures, installation-wide. Each was evaluated for maintenance and rated for repair/replacement. Replacement and repair commenced thereafter.			
Preventative Maintenance	Routine inspections, testing, and maintenance procedures of both installation equipment and stormwater management devices to identify conditions that may result in breakdowns or failures are in place, in compliance with National Pollutant Discharge Elimination System (NPDES), Virginia Pollutant Discharge Elimination System (VPDES), and local or municipal requirements.			
Good Housekeeping Measures	Clean and orderly facilities are enforced, particularly for exposed areas that may be potential sources of stormwater pollutants. Routine pickup and disposal of garbage and waste materials occurs. Under the auspices of employment and "good samaritan" laws and regulations.			

Table 3510-2F-IVC-3: Structural and Non-Structural Control Measures by Drainage Area

Representative Outfall ID Ref ID (MS4 ID)	Substantially Identical Effluent Outfalls	Applicable Standard Industrial Classification (SIC) Codes and Activities	Respective Control Measures (US)
001 (4942) Airfield (N)	4852, 4940, 4944	4581 - air transportation 4959 - snow plowing/ street 4961 - steam and heat generation 5541 - fueling station 7538 - vehicle repair shop sweeping 7542 - car/equipment washing	OWS, SW systems (culvert, outfall and piping), WW systems, drainage trenches, retention ponds, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
002 (4951) Airfield (E)	4715, 4842, 4843, 4844, 4847, 4910, 4948, 4954, 4956, 4958,	4581 - air transportation 4959 - snow plowing/ street sweeping 4961 - steam and heat generation 5541 - fueling station 7538 - vehicle repair shop 7542 - car/equipment washing	OWS, SW systems, WW systems, drainage trenches, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
003 (4991) Airfield (S)	4785, 4787, 4789,4791, 4970, 4992, 4993, 4999, 5001, 5008	4581 - air transportation 4959 - snow plowing/ street sweeping 4953 - landfill 4961 - steam and heat generation 5541 - fueling station 7538 - vehicle repair shop 7542 - car/equipment washing	OWS, SW systems, WW systems, drainage trenches, covered loading areas and material handling areas, deicing areas, master spill plans, employee training, Good Housekeeping measures.
004 (4437) Belvoir Training Area	0350, 2058, 3302, 3992, 3993, 4430, 4432, 4434, 4435, 4442, 4444, 4446, 4450, 4452, 5318, 5320, 5321, 5547, 5594, 5596, 5597, 5779, 5782, 5844, 5926, 6004, 6007	4953 - landfill	SW systems, erosion controls- swales, WW systems.
005 (2758) Building 1495 HazMART	2740, 2759, 6746	4955 - hazardous waste storage and management	SW systems, drainage trenches, erosion controls - dry swales, covered loading/unloading areas.
006 (2944) Building VA National Guard Motor Pool	N/A	7538 - vehicle repair shop	SW systems, erosion controls- swales, culvert, Good Housekeeping measures

Representative Outfall ID Ref ID (MS4 ID)	Substantially Identical Effluent Outfalls	Applicable Standard Industrial Classification (SIC) Codes and Activities	Respective Control Measures (US)
007 (2822) 21 <sup>st</sup> St Waste Facility	2832, 2856, 2857	4952 - sewage pumping stations 4953 - waste facility/landfill	SW systems, erosion controls - swales, enclosed control areas for waste, employee training, Good Housekeeping measures.
008 (5023) ADF (NE)	5015, 5017, 5018, 5021, 5023, 5026, 5028, 5038	4911 - power generation 4953 - waste refuse system 4955 - hazardous waste storage and management 4961 - system heat generation/ac systems 7538 - vehicle repair shop 8731 - engineering, chemical and industrial labs	OWS, SW systems, WW systems, drainage trenches, enclosed control areas for waste, spill plan, preventative maintenance programs.
009 (5724) Golf Course Swank/Snyder	4040, 4042, 4044, 4050, 4062, 5726, 5729, 5767, 5768, 5784, 5788	4953 - waste refuse system 7997 - golf courses	SW systems, drainage trenches, enclosed areas for waste, spill plan, preventative maintenance, covered handling areas for repairs and loading/unloading.
010 (3244) 249 <sup>th</sup> Prime Power Motor Pool	3243, 3258, 3209, 3260, 3243	7538 - vehicle repair shop 7542 - car/equipment washing	SW systems, drainage trenches, enclosed areas for waste, spill plan, preventative maintenance
011 (7242) 1985 Washrack/12 <sup>th</sup> Aviation Motor Pool	3211, 3220, 3222, 3215	7538 - vehicle repair shop 7542 - car/equipment washing	SW systems, OWS, drainage trenches
012 (5511) Mosby Center	4418, 5737, 5740, 5510, 5512, 5521, 5514, 5515, 5516, 5518, 5825	4953 - waste refuse systems 5812 - dining facility 7538 - general auto repair shop 7542 - carwashes	SW systems, WW systems, covered repair areas, unloading and loading areas, spill plan and BMPs in place.
013 (3761) Church's Chicken/ AAFES Station	3765, 3771	5541 - fueling station 5812 - dining facilities 7542 - car washes	SW systems, WW systems, covered repair areas, unloading and loading areas, OWS.
014 (3755) AAFES Station	3745, 3752, 3773	5541 - fueling station 5812 - dining facilities	SW systems, WW systems, covered repair areas, unloading and loading areas, OWS.

Representative Outfall ID Ref ID (MS4 ID)	Substantially Identical Effluent Outfalls	Applicable Standard Industrial Classification (SIC) Codes and Activities	Respective Control Measures (US)
015 (2179) 16 <sup>tt</sup> Street Storage Area	1611, 1636, 1696, 2176, 2941, 5818, 5889, 5892	4212 - debris removal/garbage collection 4959 - snow plowing/street sweeping 4911 - power generation 4952 - sewage pumping stations 4953 - waste facility/landfill 5541 - fueling station 5812 - dining facilities 7538 - vehicle maintenance shop 7542 - car washes	SW systems (storm drains, and drainage channels), spill plan and BMPs in place, WW systems.
016 (4471) Marina	4467, 4469, 4474, 5899	4493 - marina	SW systems, WW systems, covered repair areas, unloading and loading areas.
017 (7243) Building 1809 Recycling Center and Compost Yard	N/A	4953 - landfill	N/A
018 (1828) 300 Area Totten Rd	1829, 1830, 1834, 1836, 1882, 1994, 2010, 2034, 2036, 2037, 2538, 2539, 2540	4911 - power generation Major Group 34 - metal shop	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
019 (2196) Building 322 General Lab 300 Area	1821, 1824, 1826, 1827	8731 - engineering, chemical and industrial labs 8734 - testing labs	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
020 (2193) Building 324 Lab and Storage	1814, 1817, 1821, 1824, 1927, 1931, 1933, 1938, 1941, 2192	8731 - engineering, chemical and industrial laboratories 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
021 (2189) Building 305 Night Vision	1728, 1798, 1801, 1803, 1806, 1810, 2182, 2184, 2185	8731 - engineering, chemical and industrial laboratories 8734 - testing laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
022 (2128) Marina 300 Area	1886	4493 - marina 8731 - engineering, chemical and industrial laboratories	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.

Representative Outfall ID Ref ID (MS4 ID)	Substantially Identical Effluent Outfalls	Applicable Standard Industrial Classification (SIC) Codes and Activities	Respective Control Measures (US)
023 (2775) Building 1497 Warehouses	2753, 2755, 2766, 2769, 2781, 2796, 2097, 2949, 2950, 2966, 2975, 2978, 2980, 3114, 3117, 3119	4955 - hazardous waste storage and management	SW systems (storm drains), spill plan and BMPs in place, covered storage areas.
024 (5234) ADF (SW)	4300, 5203, 5220, 5225, 5232, 5242, 5274, 5280	4961 - system heat generation/ac systems	SW systems (storm drains), WW systems, spill plan and BMPs in place, covered storage areas.
025 (7241) Mead Road Contractor Lot	3346, 3348, 7241	4953 - landfill	BMPs in place
026 (7246) A08 and A09 Closed Landfills at Markham School	584, 377, 350	4953 - landfill	N/A
027 (7245) A02 Theote Landfill	N/A	4953 - landfill	N/A
028 (4334) A06 Building 2310 Landfill	4270, 4338, 4264, 5644, 4269, 5643	4953 – landfill, 4911 - power generation	N/A
029 (6004) A07 and A25 Mulligan Road Landfill	N/A	4953 - landfill	Retention Pond
030 (7244) A26 Pohick Road Landfill (S)	N/A	4953 - landfill	N/A
031 (7240) Belvoir North NGA Area Pond	N/A	9511 - Air and Water Resource and Solid Waste Management	N/A

.

## ATTACHMENT 2F-VB RECORD OF NON-STORMWATER DISCHARGES

#### Table 3510-2F-VB: Non-Stormwater Discharges

Finding Description	Date	Corrective Action Suggested	Applicable Possible Pollutants	Applicable Representative Outfalls
Personnel at Enterprise Rental Car were observed to be washing a vehicle using soaps. Runoff was discharging to a nearby storm drain. The washing activities were conducted in an uncovered, non-contained parking stall adjacent to Building 01197.	2010	All washing operations shall be conducted in a specified washing area equipped with a system to capture all wash water and discharge it to the sanitary sewer system.	Surfactants, oil, gasoline, diesel.	017
Floor drains in eastern portion of Building 01132, Prime Power School, appear to be directly connected to the storm drain, based upon discussions with facility personnel. According to facility personnel, flooding from these drains occurs during frequent storm events. This configuration has the potential to create a significant non-storm-water discharge.	2010	The floor drains should be capped at the ends to prevent a discharge to the stormwater system. Alternatively, the discharge point from the drains could be rerouted to the sanitary sewer system.	Variable and unknown.	015
Raw sewage was being discharged to the Survey Road drainage between Belvoir Road and the outfall to Dogue Creek, the wetland area west of the marina. The discharge was due to sewer line damage during the new hospital construction area.	2010	In the event of a sewage line break, the contractors should be aware of their proximity to wetland areas and take necessary precautions to prevent the discharge of wastewater to the surrounding surface waters. It is unlikely that any remediation efforts could be conducted at this point; however, documentation of the event should be maintained for future reference.	Fecal coliforms.	011

Finding Description	Date	Corrective Action Suggested	Applicable Possible Pollutants	Applicable Representative Outfalls
A discharge of steam was observed coming out of storm drain outfall 523, west of Building 01028, the Child Development and Religious Education Center. Inspectors followed the stormwater system upgradient to 12 <sup>th</sup> Street, just south of Building 01028, and observed a second discharge of steam from storm drain manhole 462, where an apparent connection to the 12 <sup>th</sup> Street steam system exists.	2010	Any illicit connections from the steam system to storm drains should be eliminated immediately. After repair of any damaged lines or illicit connections, the surrounding area should be monitored for any potential impacts.	Thermal Discharge.	017
A discharge of steam was observed at storm drain outfall 295, west of Building 00335 in the 300 Area. While it could not be confirmed through visual inspection, it appears that there is an illicit connection to the steam heat system in the 300 Area.	Further investigation shoul be conducted to confirm a connection to the steam system. Any illicit connection from the steam system to storm drains should be confirmed an an illicit connection, it appears that re is an illicit connection to the steam heat		Thermal Discharge.	007
The discharge destination of the floor drains in the Dogue Creek Marina and DAAF is unknown.	2010	Follow-up smoke testing was conducted - with no successful finding or outcome. Future dye testing is recommended.	Petroleum.	001, 002, 003, 016
The stormwater pond located at Fort Belvoir North Area associated with outfall 031 is currently treated with the chemical Black DyeMond for algae and bacterial growth neutralization.	2014	N/A	Monoethanolamine	031

### ATTACHMENT 2F-VI SIGNIFICANT LEAKS OR SPILLS

### Table 3510-2F-VI: Significant Leaks or Spills

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
01 DEC 2009	Stormwater pond #2 at the New Community Hospital	Hydraulic oil or cutting oil	~10	No	Site contractor Turner-Gilane contained the spill with appropriate boom material. The Department of Public Works - Environmental and Natural Resources Division (DPW-ENRD) observed the site, and informed and discussed the situation with the Fort Belvoir Fire Department. Subcontractor Atlas Environmental placed additional booms and sorbent pads on the pond, and then their vac truck pumped out all of the product. Pads, booms, and liquids in the vac truck were disposed of offsite under signed manifest procedures. The pond was inspected daily after this event, to ensure that no further spills reached this pond.
29 JUN 2010	Defense Logistics Agency (DLA) Mechanical Room 0109 at loading dock A	Approximately 200 gallons of 20% ethylene glycol, 80% water mixture	~200	No	Fire Department, DPW-ENRD, and Atlas Environmental were at the DLA release location. Most of the liquids remained pooled inside the building; that which came outside went into soils. Atlas used their vac truck to remove all remaining liquids in the building and used a backhoe to remove impacted soils. All liquids and soils were disposed of offsite under signed manifest procedures. Confirmatory soil sample collected was below Regional Screening Levels (RSLs) for ethylene glycol. The broken metal fitting which caused the release was replaced.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
04 JAN 2011	Missile Defense Agency (MDA)	70% water, 30% propylene glycol	~505	No	A release of approximately 465 gallons of water and 40 gallons of propylene glycol occurred on the second floor of the MDA Building when the cap on a line vent was not closed. The construction crew and Petroleum Management contained and cleaned up the spill. Carpets and cubicle walls were removed and disposed of appropriately, along with drums of liquids and materials. Caps were put in place and additional procedures were initiated to ensure a similar release does not occur in the future. Personnel were also given supplemental safety training to further prevent a similar incident.
27 JAN 2011	Gerber Village Park	Diesel Fuel	~20	No	Contractor ITI was refueling their vehicle, but did not tighten the nozzle. The hose disconnected as fueling was still occurring. ITI caught this a minute or two later, but 15-20 gallons of fuel had leaked into the snow and grass.  American Water, Fort Belvoir Fire Department, and DPW arrived to assess the situation. 40-50 cubic yards of impacted soils were disposed of in early March under appropriate manifest procedures. ITI employees were reminded by their supervisors of the importance of connecting their hoses correctly.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
17 MAY 2011	DAAF	Unknown Petroleum, small amount of solvents	~75	Yes	A brownish-gray oily liquid was released from a stormwater culvert between the DAAF Fire Department and the new Flight Control Tower. The liquid had petroleum and solvent odor. It went into a wetland area and then to State waters. All applicable regulatory agencies were contacted. Various DPW-ENRD employees were involved in handling this situation, and a lot of lessons were learned as a result. Multiple booms and sorbent pads were placed along the release area, and they were replaced several times by ENRD and by contractor Clean Harbors. Although smoke tests took place and geographic information system (GIS) layers were reviewed, it was never determined exactly where the release liquids initiated from. A report submitted to the Virginia Department of Environmental Quality (VDEQ) and the U.S. Environmental Protection Agency (EPA) has been approved at this time.
02 AUG 2011	Dogue Creek Marina	Gasoline	~20	Yes	A recreational boat at the Dogue Creek Marina released gasoline into the creek. The boat had sunken into the water, and the broken air vent from the motor released gasoline. The Fort Belvoir Fire Department and several employees from DPW-ENRD responded to the spill; ENRD did most of the work placing booms on the surface of the creek. All gasoline was contained and most had evaporated to the atmosphere. The marina employees were re-informed that they need to remove boats that are in the creek and have sunken before releases occur.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
14 DEC 2011	Building 220	Ethylene Glycol	~100	No	A pressure reducing valve popped off of boiler #2 and released water from the boiler into a drainage ditch. Installation Services Support (ISS) discovered that there was some ethylene glycol (EG) in the water, but they were not aware that any EG had been there before and it is not necessary for the boiler to have any. After sampling, lab data showed that there was 9% EG by weight in the water. DPW-ENRD decided that there was no risk with this situation given several scenarios: low percentage of EG in the water; residential soil levels are very elevated (120,000 milligrams per kilogram [mg/kg]), and groundwater is approximately 23-25 feet (ft) in the area. ENRD placed approximately 80 universal absorbent socks on the remaining puddled areas to absorb any potential remaining EG in the stormwater drainage area. These socks were picked up and removed for disposal on 16-Dec-11. ISS is ensuring that no EG is used at this location any more.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
18 JAN 2012	South of 21 <sup>st</sup> Street disposal location	Oily water that included various volatile organic compounds (VOCs) and petroleum compounds	~250	Yes	After pumping out trench drains and a manhole inside of hangar/Building 3145 at DAAF, an ISS contractor vacuum truck discharged contents (liquid and sediment/grit) onto ground located south of the 21 <sup>st</sup> Street Debris Collection Site within approximately 30 ft of an un-named perennial tributary (R3) to Gunston Cove. Samples were collected and analyzed, and it was determined that various VOCs, including benzene, toluene, ethylbenzene, and xylenes (BTEX) and total petroleum hydrocarbons - diesel range organics (TPH-DRO) were present in the liquid/sediment. A survey was conducted on the morning of 19 January 2012 to assess damage to the stream ecosystem. From point of discharge, for approximately 2,000 ft downstream, 221 dead fish, which included bluegill ( <i>Lepomis macrochirus</i> ) and blacknosed dace ( <i>Rhinichthys atratulus</i> ), and one unidentified species of frog were found. In addition, two American eels ( <i>Anguilla rostrata</i> ) were found heavily distressed.
07 SEP 2012	Building 182 (Benyaurd Indoor Pool)	Chlorinated filter backwash water	~400	Yes	During a filter backwash, the sanitary drain overflowed and went into a grate which discharges outside and into a stream (unnamed tributary to Gunston Cove, to the Potomac River). Once discovered, the filter backwash was immediately stopped and DPW-ENRD was notified. The incident was reported to VDEQ and the Virginia Department of Conservation and Recreation (VDCR). The manufacturer was contacted and the full backwash procedures were relayed to the staff that conducts the activity. The staff re-evaluated procedures to make sure that only one filter is backwashed at a time to prevent the overflowing of the sanitary drain as the drain is designed to only handle flow from one filter at a time.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
28 FEB 2012	Delivery Screening Area (Bldg 2846) at ADF-E	Sulfuric acid from large batteries	~10-15	No	At approx 0900 hours the Env'l Health and Safety Branch of ADF-E was informed by security that a chemical spill had occurred in the Delivery Screening Area (B2846) near the Remote Delivery Facility at ADF-E. Four large batteries had fallen, broken open, and released sulfuric acid onto the concrete floor. 0940 ADF-E attempted to contain the spill. 1005 the Fort Belvoir Fire Dept arrived with their HAZMAT team to contain the situation. The spill was successful contained by 1200. Subcontractor HEPACO arrived at 1540 hours to clean up the site: all sulfuric acid tainted material, four wet batteries, rags and vermiculite were placed into 55-gallon drums. The drums were transported to Bldg 1495 for future disposal.
21 MAR 2013	Bldg 2907, SP Golf Course	~15% #2 heating oil, ~85% soils	~10	No	Removed two 275 gallon #2 heating oil ASTs. Leakage under one of them into surrounding soils produced nine 55-gallon drums of impacted soils.
05 AUG 2013	Used Car lot behind NP USPS	Hydraulic Oil	~20-22	No	~20-22 gallons of hydraulic oil leaked from Bates' truck onto the used car parking lot. Bates initially provided dry sweep for the cleanup and brought impacted materials offsite for disposal. No liquids reached drains or state waters.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
01 SEP 2013	Substation behind HEC	Mineral oil	~9800	No	Dominion Virginia Power (DVP) substation that provides all the power to Main Post had a 25+ year old transformer that ruptured at 0230 hours and released mineral oil all over their yard and into the nearby man-made stormwater area. DVP handled all of the clean-up response, and reported the spill to NRC.
11 SEP 2013	MP Building 1950	Hydraulic oil	~20-30	No	An excavator was being loaded onto a truck bed when the hydraulic line on the crane ruptured. The hydraulic box contains 30 gallons maximum, Motor Pool folks were unsure if it was full at the time. Dry-sweep and boom material were used for cleanup. None reached state waters.
07 NOV 2013	Building 2583, HEC	Mineral Oil	~150	No	A 310 gallon transformer ruptured when picked up by a fork lift. Employees were able to capture 140 gallons under the dripping portion of the truck. IMS/Hepaco completely remediated everything at the site. No mineral oil reached stormwater water or any other drains.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
13 DEC 2013	Building 3233, DAA 5,000 gallon UST (Tank ID 5233B).	No. 2 Heating Oil	~1500	Ö	Fuel was found in the drain trench within the building. Bowen Engineering cut one of the fuel lines leading from the UST to Building 3233 while working on drinking water lines. It is unknown when the tank was last filled, and the Veeder Root system was not functioning. The last tightness test conducted in October 2012 indicated the tank was tight and contained 4480 gallons of fuel. Aleut contracted for two pump trucks to empty tank, pump out fuel/water mixture from trench drain and utility pit adjacent to the building, reporting 3,000 gallons of product were recovered. It is unknown how much of the remaining 1500 gals were recovered. Inspectors of drainage areas surrounding the building did not observe odors or sheen on any surface water. The release was reported to VDEQ on 13 DEC 13. Corrective actions for this site will be conducted under Virginia's Petroleum Program.
15 JAN 2014	Building 1133	Gasoline	Unknown	<u>و</u>	Two tanks associated with building 1133 were excavated and removed in November 2013. Soil samples collected from the fuel line locations exhibited Toluene and total Xylenes (1.0 and 2.9 ppb, respectively). A site characterization report is due to VDEQ on March 31, 2014. Fort Belvoir anticipates that no corrective actions will be required.

Date	Release Location	Type of Product or Chemical	Release Quantity (gallons)	Reach State Waters (Yes/No)	Comments
15 JAN 2014	Building 1197	Gasoline	Unknown	on O	Three tanks associated with building 1197 were excavated and removed in December 2013. Soil samples collected from below the tank locations exhibited BTEX. A site characterization report is due to VDEQ on March 31, 2014. Fort Belvoir anticipates that no corrective actions will be required.

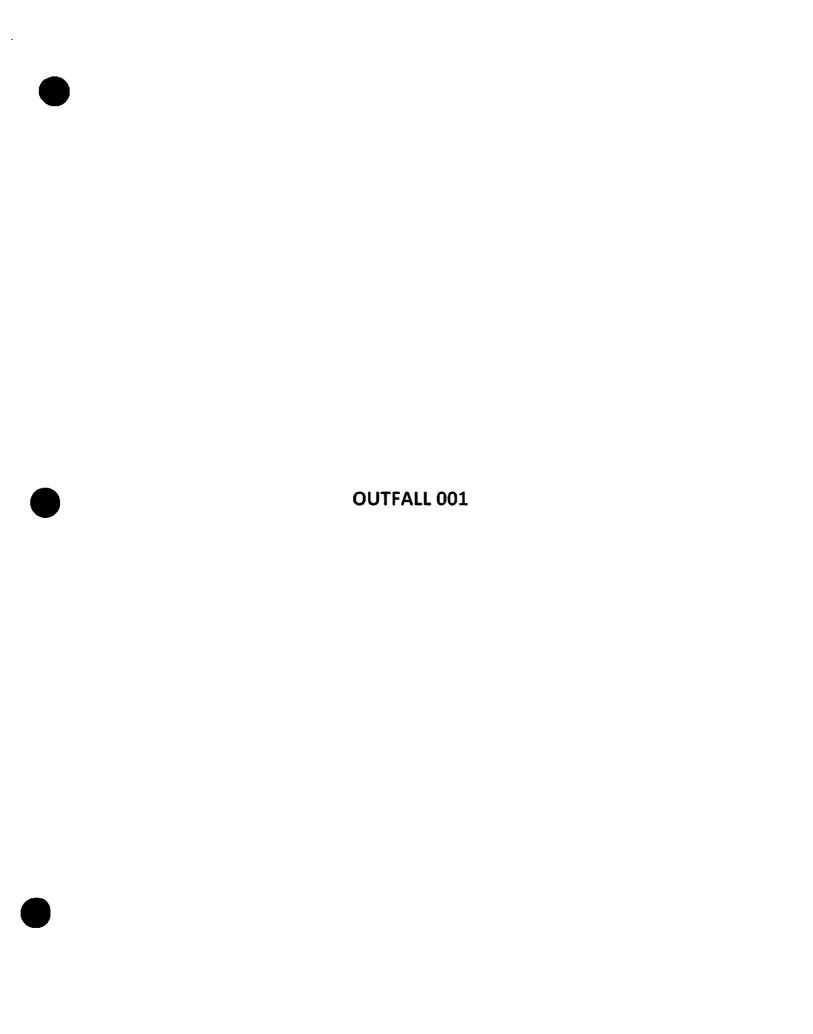
# ATTACHMENT 2F-VII DISCHARGE INFORMATION TABLES

#### 2F-VII: Discharge Information

Flow measurements were generated using a maximum flow estimation, assuming a uniform drainage runoff rate. As all sampling events were of small volume (<1.00 inch), runoff was calculated using the "Small Storm Hydrology Method" (Pitt 2003), which relates an absorption coefficient with the level of imperviousness of the surface. Each event was sampled from the first flush, and samples collected for at least 180 minutes, estimated. As the representative outfalls were chosen with limited alternate potential drainage paths, maximum flow was determined by dividing the total rainfall over the drainage area, adjusted for absorption, over the duration of the sampling event.

Effluent guidelines to which the facility is subject are included within Tables 2F-I through 2F-IV at the end of Form 3510-2F. These are analyzed for in addition to the sampling analysis performed by QC Labs Delaware (formerly known as Atlantic Coast Labs), listed in Attachment 2F-IX.

A total of one sample was collected for each representative outfall; therefore, for all analyte data sets, maximum and average values will be equal.



#### 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND		1	5541- Fueling Station,
Biological Oxygen Demand (BOD5)		10.0 mg/L		10.0 mg/L		7542-Car/ Equipment Washing, 4961-
Chemical Oxygen Demand (COD)		38 mg/L		38 mg/L		Steam and Heat Generation, 7538-
Total Suspended Solids (TSS)		16.2 mg/L		16.2 mg/L		Vehicle Repair Shop, 4959- Snow Plowing/
Total Nitrogen		3.21 mg/L		3.21 mg/L		Street Sweeping,
Total Phosphorus		0.29 mg/L		0.29 mg/L		4581- Air
рН	Minimum 7.64	Maximum 7.64	Minimum 7.64	Maximum 7.64		Transportation

Part B- List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Value	s (include units)	Ave	rage Values (include units)		
			Sample			
	Grab Sample		(Taken		Number of	
Pollutant and	(Taken during first	Time-Weighted	during first		Storm Events	
CAS Number	20 minutes)	Composite	20	Time-Weighted Composite	Sampled	Sources of Pollutants
			Not	Applicable.		

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

additional details and requ	irements. Compl	ete one table for e	ach outfall.			
	Maximum Value	es (include units)	Average Values (i	nclude units)		
	Grao Sample					
	(Taken during	<b>~</b>	Grab Sample	Time-		
Dellines and CAC North an	first 20	Time-Weighted	(Taken during	Weighted	Number of Storm	Courses of Dallymans
Pollutant and CAS Number		Composite	first 20 minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	20 MPN/ 100mL		20 MPN/ 100mL			
Chlorine Residual	ND		ND			
Cyanide, Total	ND		ND			
Total Phenolics, High Level	ND		ND			
color		100		100		
Fluoride, IC		ND		ND		
Nitrate as N		2.86 mg/L	<u></u>	2.86 mg/L		
Nitrite as N		0.35 mg/L		0.35 mg/L		
Sulfate, IC		15 mg/L		15 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		0.26 mg/L		0.26 mg/L		
Ammonia as N		5.90 mg/L		5.90 mg/L		
Organic Nitrogen as N		0.74 mg/L		0.74 mg/L		
Aluminum, Total, ICP		0.285 mg/L		0.285 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.025 mg/L		0.025 mg/L		
Beryllium, Total, M\$		ND		ND		
Boron, Total, ICP		0.029 mg/L		0.029 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		ND		ND		
Cobalt, Total, ICP		ND		ND		
Copper, Total, ICP		0.015 mg/L		0.015 mg/L		
Iron, Total, ICP		0.775 mg/L		0.775 mg/L		
Lead, Total, MS		ND		ND		
Magnesium, Total, ICP		7.45		7.45	i	
Manganese, Total, ICP		0.168 mg/L		0.168 mg/L		
Mercury, Total, CVAA		NĐ		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		ND		ND		
Selenium, Total, MS		ND		ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		NĎ		ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichtorobenzene		ND		ND	•	
1,3-Dichlorobenzene		NO		ND		
1,4-Dichlorobenzene		ND		ND		
2,4,6-Trichlorophenol		ND		ND		
2,4-Dichlorophenol		ND		ND		
2,4-Dimethylphenol		ND		ND		
2,4-Dinitrophenol		ND		ND		
2,4-Dinitrotoluene		ND		ND		
2,6-Dinitrotoluene		ND		ND		
2-Chloronaphthalene		ND		ND		
2-Chlorophenol		ND		ND		
2-Nitrophenol		ND	<u> </u>	ND		

·		es (include units)	Average Values (i	nclude units)		
	(Taken during first 20	Time-Weighted	Grab Sample (Taken during	Time- Weighted	Number of Storm	
Pollutant and CAS Number	minutes)	Composite	first 20 minutes)	Composite	Events Sampled	Sources of Pollutants
3,3'-Dichlorobenzidine		ND		ND		
4,6-Dinitro-2-		ND		AID.		
methylphenol		ND		ND		
4-Bromophenyl-		ND		ND		
phenylether						
4-Chloro-3-methylphenol 4-Chlorophenyl-		ND		ND		
phenylether	ŀ	ND		ND		
4-Nitrophenal		ND		ND		
Acenaphthene		ND ND		ND		
Acenaphthylene		ND		ND		
Anthracene		ND				
				ND NO		
Azobenzene		ND ND	-	ND		
Benzidine		ND		ND ND		
Benzo(a)anthracene	ļ	ND	ļ	NO.		
Benzo(a)pyrene	<u></u>	ND		NO		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene		ND		NĐ		
Benzo(k)fluoranthene		ND		NO		
Bis(2- chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl)		ND		ND		
ether		NU	<u></u>	NU		
Bis(2-ethylhexyl) phthalate		ND		ND		
Butylbenzylphthalate	<u> </u>	ND	[	ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		NĐ	1	ND		
Di-n-octyl phthalate		ND		NĐ		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		СИ		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
lexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n-						
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene	1	ND		ND		
	<del> </del>				1	
Pentachlorophenol		ND	j	ND		

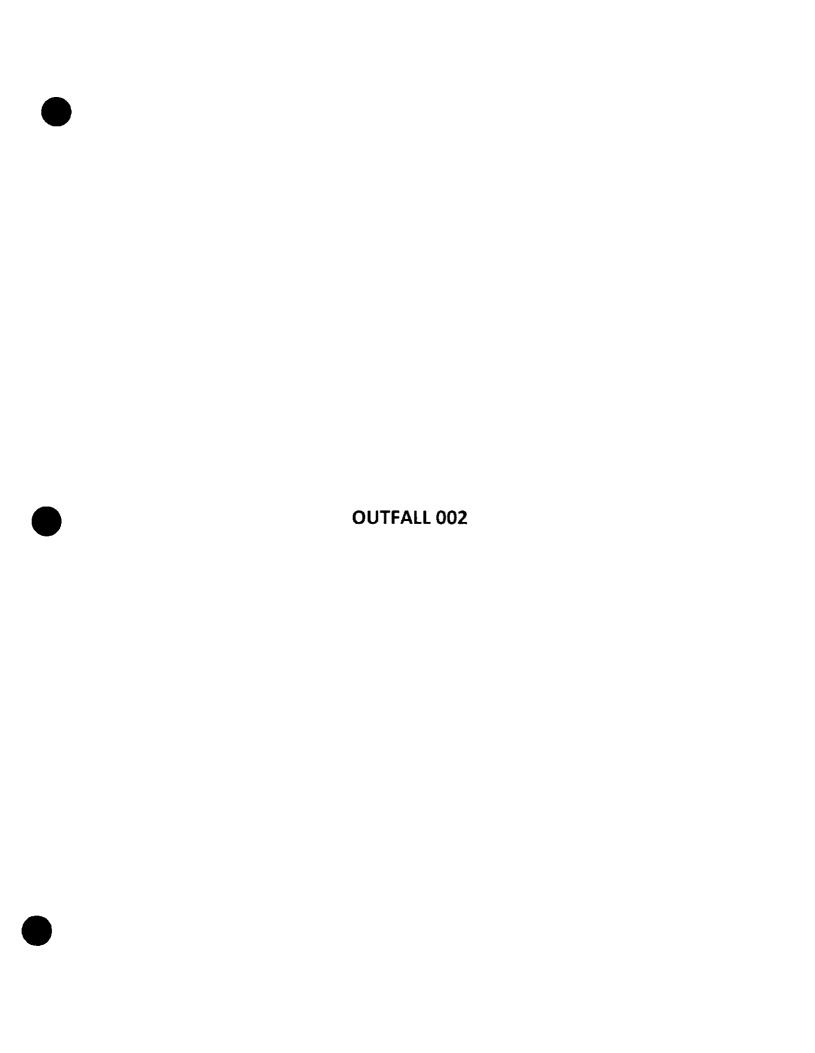
		es (include units)	Average Values (i	nclude units)		
	(Taken during		Grab Sample	Time-		
	first 20	Time-Weighted		Weighted	Number of Storm	
Pollutant and CAS Number		Composite	first 20 minutes)	Composite	Events Sampled	Sources of Pollutants
Phenol		ND	'	ND		
Pyrene		ND ND		ND ND		
4,4'-ODD		ND ND		ND		
4,4'-DDE		ND		ND		
4,4'-DDT		ND ND		ND		
Aldrin		ND ND		ND		
alpha-BHC		ND ND		ND		
alpha-Chlordane		ND ND	<u> </u>	ND ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND ND		
				<del> </del>		
Dieldrin Endosulfan I		ND	<del>                                     </del>	ND ND		
Endosulfan II		ND		ND ND		
Endosulfan sulfate	<del> </del>	ND ND	<b></b>	· · · · · · · · · · · · · · · · · · ·		
Endosultan sultate Endrin		ND ND	-	ND ND		
				······		
Endrin aldehyde		ND ND		ND ND		
Endrin ketone	1	ND ND		ND		
gamma-BHC (lindane)		ND		ND ND		
gamma-Chlordane		ND		ND		
Heptachlor		ND		ND		
Heptachlor epoxide	ļ	ND		ND ND		
Methoxychlor		ND		ND		
PCB-1016		ND ND		ND ND		
PCB-1221		ND		ND		
PCB-1232		ND ND		ND ND		
PCB-1242		ND		ND		
PCB-1248	ļ	ND		ND		
PCB-1254		ND	<b>_</b>	ND		
PCB-1260		ND ND		ND		
Toxaphene		ND 12.1 x Ci (t	<u> </u>	ND 12.1 x Cl/l		
Gross Alpha		<2.1 pCi/L		<2.1 pCi/L		
Gross Beta		22.5 pCi/L		22.5 pCi/L		
Radium 226		0.7 pCi/L	<u> </u>	0.7 pCi/L		
Radium 228		<0.8 pCi/L		<0.8 pCi/L		
1,1,1-Trichloroethane		ND		ND		
1,1,2,2-Tetrachloroethane		ND	1	ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND	· · ·	ND		
1,2-Dichlorobenzene	· · · · · · · · · · · · · · · · · · ·	ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND	<u> </u>	ND ND		
1,4-Dichlorobenzene		ND ND		ND ND		
2-Chloroethylvinyl ether		ND		ND		
Acrolein		ND		ND		
Acrylonitrile		NO		ND		
Benzene		ND		ND		

		es (include units)	Average Values (i	nclude units)		
	(Taken during first 20	Time-Weighted	Grab Sample (Taken during	Time-	North or of Consess	
Pollutant and CAS Number		Composite	first 20 minutes)	Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Bromodichloromethane	miliates		mac zo minaces,		Events sampled	Jources of Follocarits
		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		NĎ		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ΝĐ		
Chloroform		ND		ND		
Chloromethane		ND		NĎ		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ΝĎ		
Tetrachloroethene		ND		NĐ		
Toluene		4.2 ug/L		4.2 ug/L		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

`

Part D- Provide data for the storm event(s) which resulted in the maximum values for the time weighted composite sample.

				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
2/16/2012	180	0.1	126	4.4	792.9



#### 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			5541- Fueling Station,
Biological Oxygen Demand (BOD5)		ND		ND		7542- Car/Equipment Washing, 4961- Steam
Chemical Oxygen Demand (COD)		27 mg/L		27 mg/L	1	and Heat Generation, 7538- Vehicle Repair Shop, 4959- Snow Plowing/ Street
Total Suspended Solids (TSS)		16.2 mg/L		16.2 mg/L		
Total Nitrogen		0.34 mg/L		0.34 mg/L		Sweeping, 4953-
Total Phosphorus		ND		ND		Landfill, 4581- Air
pΗ	Minimum 7.05	Maximum 7.05	Minimum 7.05	Maximum 7.05		Transportation

Part B- List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Value	s (include units)	Ave	rage Values (include units)		
			Sample	<del></del>	7	
	Grab Sample		(Taken		Number of	
Pollutant and	(Taken during first	Time-Weighted	during first		Storm Events	
CAS Number	20 minutes)	Composite	20	Time-Weighted Composite	Sampled	Sources of Pollutants
			Not A	pplicable.	•	

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Average Values (include units)

Maximum Values (include units)

additional details and requ			Average Value	es (include		
	Maximum Value	s (include units)	units	:}		
Dalling on and CAS Novahor	Grab Sample (Taken during first	Time-Weighted	Grab Sample (Taken during first 20	Time- Weighted	Number of Storm	Course of Dellinoses
Pollutant and CAS Number		Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	<20 MPN/ 100mL		<20 MPN/ 100m	L		
Residual Chlorine	2		2			
Cyanide, Total	ND		ND			
Total Phenolics, High Level	ND		ND			
color		1500		1500		
Fluoride, IC		ND	<b>.</b>	ND		
Nitrate as N		0.11 mg/L		0.11 mg/L		
Nitrite as N		ND		ND		
Sulfate, IC		9.56 mg/L		9.56 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		ND		ND		
Ammonia as N		ND		ND	;	
Organic Nitrogen as N		0.23 mg/L		0.23 mg/L		
Aluminum, Total, ICP		0.352 mg/L		0.352 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.027 mg/L	1	0.027 mg/L		•
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.008 mg/L		0.008 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		ND		ND		
Cobalt, Total, ICP			<u> </u>	<del> </del>		
		ND	-	ND		
Copper, Total, ICP		ND		ND		
Iron, Total, ICP		1.15 mg/L		1.15 mg/L		
Lead, Total, MS		ND		ND		
Magnesium, Total, ICP		1.94 mg/L		1.94 mg/L		
Manganese, Total, ICP		0.360 mg/L		0.360 mg/L		
Mercury, Total, CVAA		ND		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		ND		ND		
Selenium, Total, MS		ND		ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		ND		ND		
Tin, Total, ICP		ND	ļ	DN		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichlorobenzene		ND		NO		
1,3-Dichlorobenzene		МÐ		ND		
1,4-Dichlorobenzene		ND		ND	İ	
2,4,6-Trichlarophenol		ND		ND		
2,4-Dichlorophenol		ND		ND		
2,4-Dimethylphenol		ND		ND		
2,4-Dinitrophenol		ND		ND		
2,4-Dinitrotoluene		ND		ND		
2,6-Dinitrotoluene		ND		ND		
2-Chloronaphthalene		ND		ND		
2-Chlorophenol		ND	İ	ND ND		

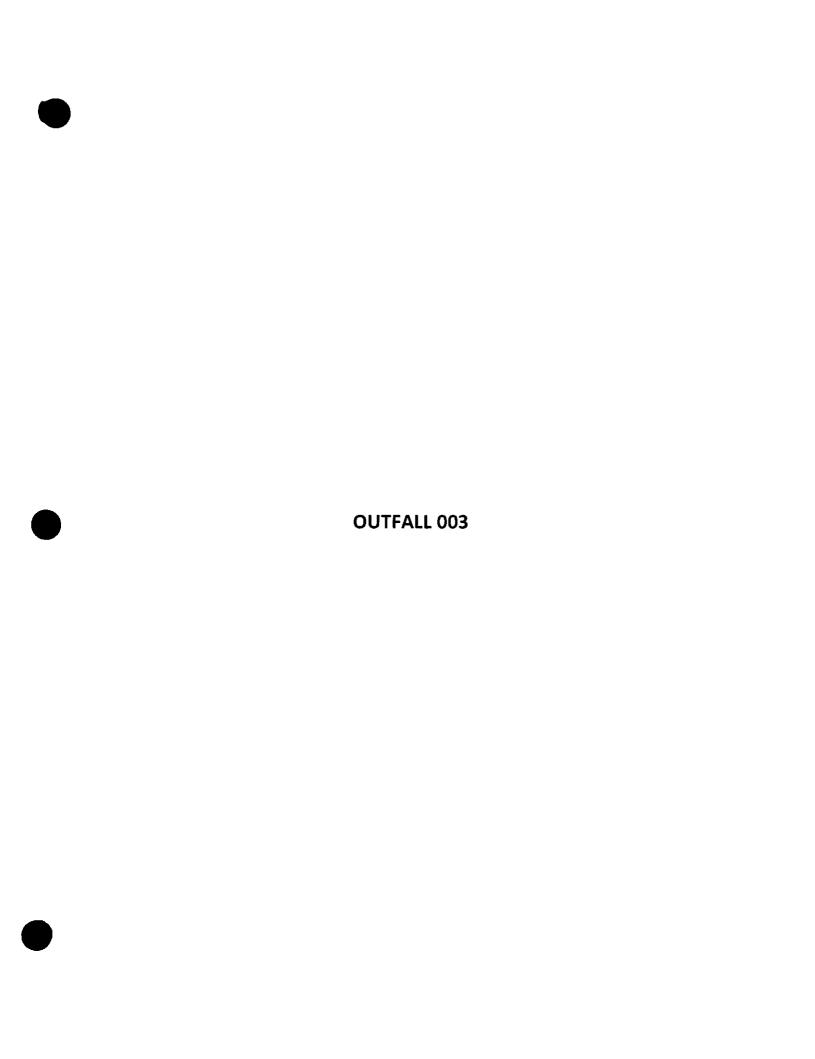
	Maximum Values (include units)		Average Values (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
2-Nitrophenol					events samples	Sources of Conditation
3,3'-Dichlorobenzidine		ND	-	ND		
4,6-Dinitro-2-		ND		ND		
methylphenol		ND		NĐ		
4-Bromaphenyl-						
phenylether		ND		ND		
A Obligation of the state of th		ND		ND		
4-Chloro-3-methylphenol 4-Chlorophenyl-			<u> </u>	,,,,		
phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND		
Acenaphthylene		ND		ND		
Anthracene		ND		ND ND		
Azobenzene		ND	<b>.</b>	ND ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND ND		
Benzo(a)pyrene	· · · · · · · · · · · · · · · · · · ·	ND		ND		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene	·····	ND		ND ND		
Benzo(k)fluoranthene		ND		ND		
Bis(2-			[ ]	110		
chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl)		ND		NO		
ether		ND		ON		
Bis(2-ethylhexyl)		ND		ND		
phthalate						
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND ND		ND ND		
Di-n-octyl phthalate		ND NO		ND ND		
Dibenzo(a,h)anthracene		ND ND		ND		
Diethylphthalate Dimethyl phthalate		ND ND		GN		
Fluoranthene		ND ND		ND		
Fluoranthene		ND ND		ND		
Hexachlorobenzene		ND ND		ND ND		
Hexachlorobutadiene		ND		ND ND		
Hexachlorocyclopentadien						
e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n-		ND		ND		
propylamine		ND		IND		
N-Nitrosodimethylamine		ND	<u></u>	ND		
N-Nitrosodiphenylamine		ND		ИD		
Naphthalene		ND		ND		
			Laurence			

	Maximum Values (include units)		Average Values (include units)			
	Grab Sample (Taken during first		Grab Sample (Taken during first 20	Time- Weighted	Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Pentachiorophenol		ПD		ND		
Phenanthrene		ND		ND		
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		ND		ND		
4,4'-DDE		ND		ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND	İ	ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		NO		ND		
Endrin ketone		ND		ND ND		
gamma-BHC (lindane)		ND		ND ND		
gamma-Chlordane		ND ND		ND ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND ND			:	
PCB-1016				ND		
		ND		NO		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248		ND		ND		
PCB-1254		ND		ND		
PC8-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		0.9 pCi/L		0.9 pCi/L		
Gross Beta		1.9 pCi/L		1.9 pCi/L		
Radium 226		0.2 pCi/L	· · · · · · · · · · · · · · · · · · ·	0.2 pCi/L		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
.,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		•
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ΝĎ		

	Maximum Values (include units)		Average Values (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		NO		ND		
Chloroform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ИĎ		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

#### Part D- Provide data for the storm event(s) which resulted in the maximum values for the time weighted composite sample.

				5. Maximum flow rate	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
2/16/2012	180	0.1	126	12.9	2327.1



**OUTFALL 004** 

# 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Values (include units)		Average Values	(include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BODS)		ND		ND		
Chemical Oxygen Demand (COD)		ND		ND	1	4953- Landfill
Total Suspended Solids (TSS)		22.2 mg/L		22.2 mg/L	1	4555- Edilami
Total Nitrogen		1.05 mg/L		1.05 mg/L		
Total Phosphorus		ND		ND		
рН	Minimum 7.16	Maximum 7.16	Minimum 7.16	Maximum 7.16		

	Maximum Value	s (include units)	Average Va	lues (include units)		
			Sample		1	
	Grab Sample		(Taken		Number of	
Pollutant and CAS	(Taken during first	Time-Weighted	during first	Time-Weighted	Storm Events	Sources of
Number	20 minutes)	Composite	20	Composite	Sampled	Pollutants
		Not A	pplicable.	· · · · · · · · · · · · · · · · · · ·		

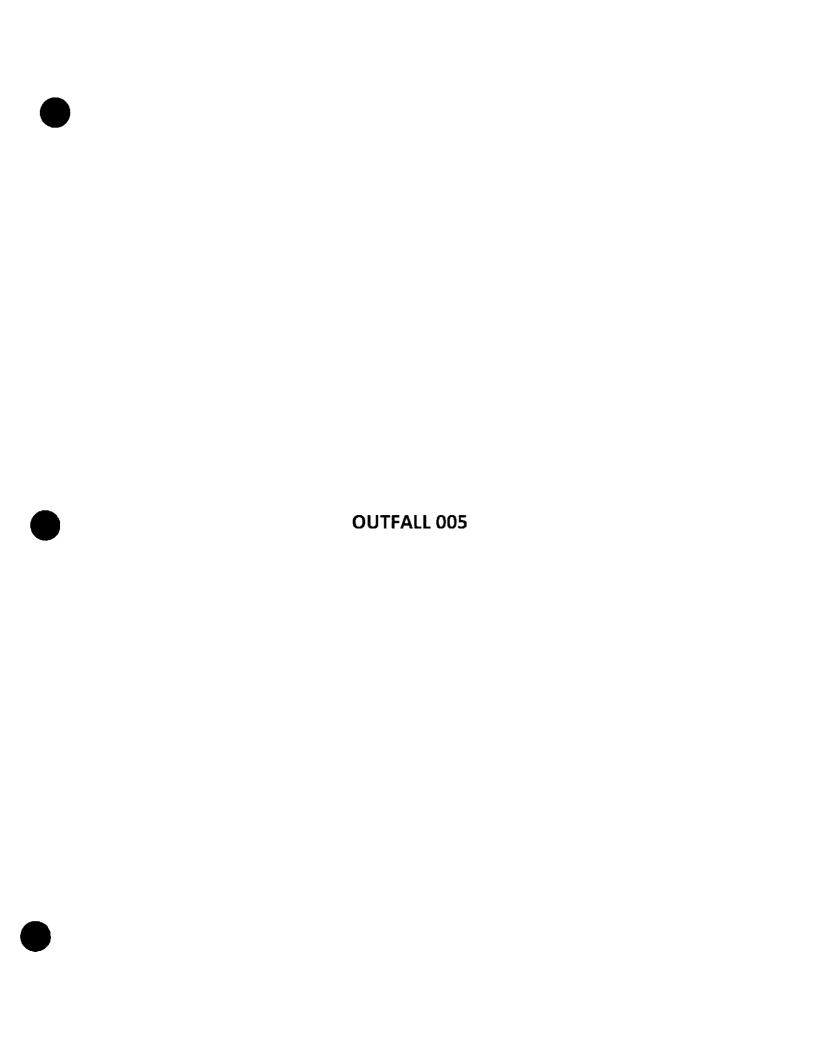
additional details and requi	irements. Complei	te one table for eac	·		1	
	Maximum Valu	es (include units)	Average Value units			
	Grab Sample (Taken during	Time-Weighted	(Taken during first 20	Time- Weighted	Number of Storm	
Pollutant and CAS Number	first 20 minutes)	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	90MPN/ 100mL		90MPN/ 100mL			
Residual Chlorine	ND		ND			
Cyanide, Total	ND		ND			
Total Phenolics, High Level	ND		ND			
color		100		100		
Fluoride, IC		ND		ND		
Nitrate as N		0.58 mg/L	<u> </u>	0.58 mg/L		
Nitrite as N		ND		NĐ		
Sulfate, IC		3.23 mg/L		3.23 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		ND		ND		
Ammonia as N		ND		ND		
Organic Nitrogen as N		0.47 mg/L		0.47 mg/L		
Aluminum, Total, ICP		1.29mg/L		1.29mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.043 mg/L		0.043 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.011 mg/L		0.011 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		ND		NĎ		
Cobalt, Total, ICP		ND		ND		
Copper, Total, ICP		ND		ND		
Iron, Total, ICP	1	1.29 mg/L		1.29 mg/L		
Lead, Total, MS		0.003 mg/L		0.003 mg/L		
Magnesium, Total, ICP		2.07 mg/L		2.07 mg/L		
Manganese, Total, ICP		0.073 mg/L		0.073 mg/L		
Mercury, Total, CVAA		ND		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		ND		ND		
Selenium, Total, MS		ND		ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		ND		ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2,4,6-Trichlorophenol		ND		ND		
2,4-Dichlorophenol		ND		ND		
2,4-Dimethylphenol		ND		ND		
2,4-Dinitrophenol		NÐ		ND		
2,4-Dinitrotoluene		ND		ND		
2,6-Dinitrotoluene		DN		ND		
2-Chloronaphthalene		NĐ		ND		
2-Chlorophenal		ND		ND		
2-Nitrophenol		ND		ND		

	Maximum Values (i		Average Value units	· · ·		
Pollutant and CAS Number	Grab Sample (Taken during	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
	nist 20 minutes)		manates)		Lvents sampled	2001CE2 OI FOIIDGAIL(2
3,3'-Dichlorobenzidine 4,6-Dinitro-2-		ND		ND		
methylphenol		ND		NĐ		
4-Bromophenyl-		410	•	4.15		
phenylether		ND		ND		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl-		ND		ND		
phenylether		ND		NU		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND	1	
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene		ПО		ND	]	
Benzidine		ND	ļ	ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		NĐ		ND		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene		ND		ND		
Bis(2-		ND		ND		
chloroethoxy)methane				<del> </del>		
Bis(2-chloroethyl) ether Bis(2-chloroisopropyl)		ND		ND		
ether		ND		ND		
Bis(2-ethylhexyl)				<b>-</b>		
phthalate		8.97 ug/L		8.97 ug/L		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene	·	ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND	L	ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n-						
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		NĎ		ND		
Nitrobenzene		ND		ND		
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND		

	Maximum Values (include units)		Average Value units	-		
Pollutant and CAS Number	Grab Sample (Taken during	Time-Weighted Composite	(Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
	misc zo minutes;		minates;		rvents sampled	3001CES OF FOIId Carits
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-ODD		ND		ND		
4,4'-DDE		ND		ND 410		
4,4'-DDT		ND		ND		
Aldrin		ND		GN		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND	ļ	ND		
Chlordane		ND -	<b>ļ</b>	ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND	ļ	ND		
Endosulfan II		ND	ļ	ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		ND		
gamma-BHC (lindane)		МÐ		ND		
gamma-Chlordane		NĐ		ND		
Heptachlor		ND	<u> </u>	ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ND	<u> </u>	ND		
PCB-1242		ND		ND		
PCB-1248		ΝĐ		ND		
PC8-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		1.4 pCi/L		1.4 pCi/£		
Gross Beta		4.1 pCi/L		4.1 pCi/L		
Radium 226		0.5 pCi/L	·	0.5 pCi/L		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
1,1,2,2-Tetrachloroethane		NĐ		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		
Acrolein		ND		ND		
Acrylonitrile		ND	1	ND		

	Maximum Values (include units)		Average Value units	-		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	(Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Benzene		ND		ND		
Bromodichloromethane	·	ND		ND		
Bromoform		ND		ND		
Bromomethane		GN		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chlarofarm		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		В		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

			·"· · · · · · · · · · ·	<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
2/29/2012	180	0.9	112	16.8	3030.4



## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Values (include units)		Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND	. "	ND			
Biological Oxygen Demand (BOD5)		ND		ND		
Chemical Oxygen Demand (COD)		59 mg/L		59 mg/L	1	4955- Hazardous Waste
Total Suspended Solids (TSS)		220 mg/L		220 mg/L	*	Storage
Total Nitrogen		2.70 mg/L		2.70 mg/L		
Total Phosphorus		0.37 mg/L		0.37 mg/L		
pΗ	Minimum 6.71	Maximum 6.71	Minimum 6.71	Maximum 6.71		

	Maximum Values (include units)		Ave	rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
CAS Number	20 minutes)	Composite	L	Time-Weighted Composite  Not Applicable.	Events Sampled	Sources of Po

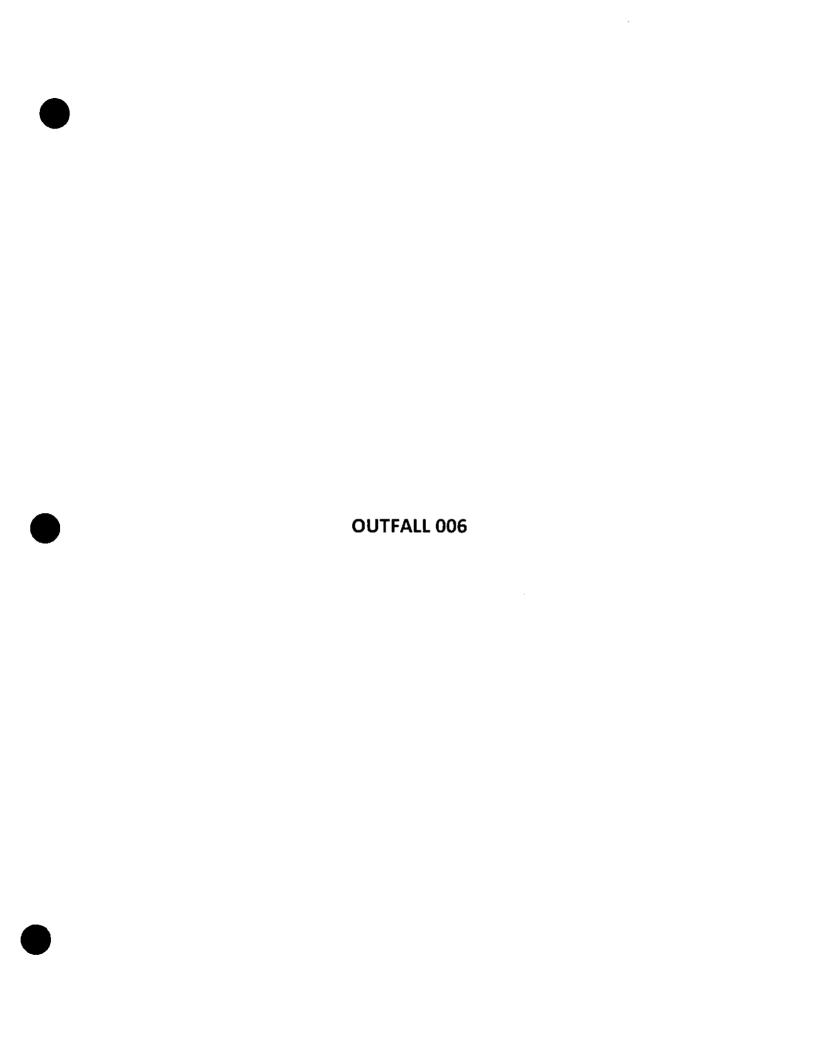
<u>.</u>			Average Values (include		· I	
	Maximum Value	s (include units)		units)		
			Grab Sample	<del>i                                    </del>		
	Grab Sample	Time-Weighted	(Taken during	Time-		
	(Taken during first	Composite	first 20	Weighted	Number of Storm	
Pollutant and CAS Number	I	·	minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	500 MPN/100mL		500 MPN/100ml			
Residual Chlorine	ND		ND			
Cyanide, Total	ND		ND			
Total Phenolics, High Level	ND		ND			
color		150		150		
Fluoride, IC		ND		NĎ		
Nitrate as N		ND		ND		
Nitrite as N		ПD		ND		
Sulfate, IC		6.44 mg/L		6.44 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		ND		ND		
Ammonia as N		0.28 mg/L		0.28 mg/L		
Organic Nitrogen as N		2.42 mg/L		2.42 mg/L		
Aluminum, Total, ICP		4.52 mg/L		4.52 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.133 mg/L		0.133 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.018 mg/L	1	0.018 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		0.006 mg/L		0.006 mg/L		
Cobalt, Total, ICP		0.008 mg/L		0.008 mg/L		
Copper, Total, ICP		0.022 mg/L		0.022 mg/L		
Iron, Total, ICP		8.84 mg/L		8.84 mg/L		
Lead, Total, MS		0.020 mg/L		0.020 mg/L		
Magnesium, Total, ICP		6.00 mg/L	1	6.00 mg/L		
Manganese, Total, ICP		0.360 mg/L		0.360 mg/L		
Mercury, Total, CVAA		ND		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		0.008 mg/L		0.008 mg/L		
Selenium, Total, MS		ND		ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		DO		ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND	·	
1,2-Dichlorobenzene		ND		ND		
1,3-Dichforobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2,4,6-Trichlarophenol		ND		ND		
2,4-Dichlorophenol		ND		ND		
2,4-Dimethylphenol		ND		ND		
2,4-Dinitrophenol		ND		ND		
2,4-Dinitrotoluene		ND		ND	l	
2,6-Dinitrotoluene		ND	<u> </u>	ND		
2-Chioronaphthalene		ND	İ	ND	I	
2-Chlorophenol		ND	1	ND	l	

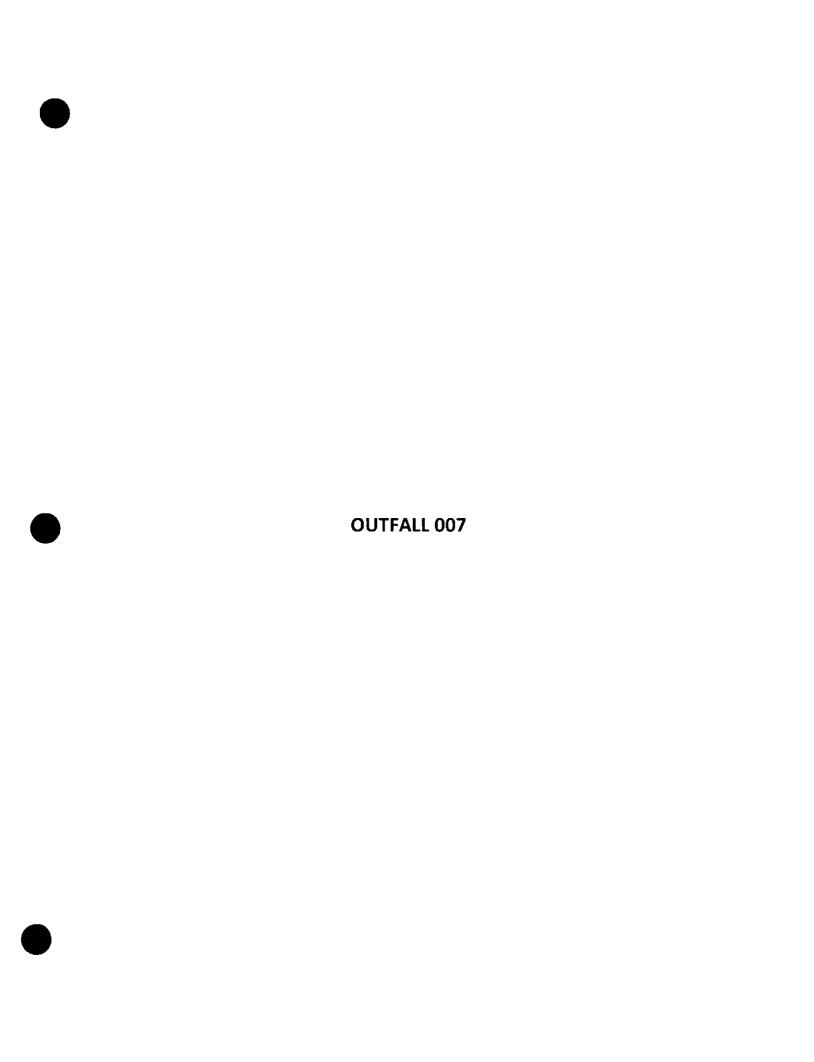
	Maximum Value	es (include units)	Average Value units			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm  Events Sampled Sources	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlorabenzidine		ND		ИÐ		
4,6-Dinitro-2-		NO		110		
methylphenol		ND		ND		
4-Bromophenyl- phenylether		ND		DM		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl- phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND	ļ	ND		
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene		ND		ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND		
8enzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene		ND		ND		
Bis(2- chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl) ether		ND		ND		
Bis(2-ethylhexyl) phthalate		ND		ND		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ΝĎ		ND		
Di-n-octyl phthalate		ND		NĐ		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien e	:	ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n- propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND	İ	
Nitrobenzene		ND		ND		İ

	Maximum Value	es (include units)	Average Value units			
	Grab Sample (Taken during first	Time-Weighted Composite	Grab Sample (Taken during first 20	Time- Weighted	Number of Storm	
Pollutant and CAS Number	20 minutes)	,	minutes)	Composite	Events Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND		
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		ИD		ND		
4,4'-DDE		ND		ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chiordane		NĐ		ND		
beta-BHC		ND		ND		
Chlordane		ND		NO.		
delta-BHC		ND		ND		
Dieldrin		ND	j	ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		NĐ		
Endosulfan sulfate		ND		NĐ		
Endrin		ND		NO		
Endrín aldehyde		ND		ND		
Endrin ketane		ND		ND		
gamma-BHC (lindane)		ND		ND	]	
gamma-Chlordane		ND		ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ЙИ		ND		
PCB-1242		ND		ND		
PCB-1248		ND		ND		
PCB-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		4.0 pCi/L		4.0 pCi/L		
Gross Beta		4.9 pCi/L		4.9 pCi/L		
Radium 226		0.4 pCi/L		0.4 pCi/L		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		NO		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

	Maximum Values (include units)		Average Value units			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chlaroform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochioromethane		ND		ИD		
Ethylbenzene		ND		NO		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

ı					<ol><li>Maximum flow rate</li></ol>	
ı			3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
ı	1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
l	event	Event (in minutes)	inches)	measurable event.	units)	specify units)
I	11/29/2011	180	0.39	150	12.4	2223.9





## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Valu	res (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			4952- Sewage Pumping Stations, 4953- Waste Facility/ Landfill
Biological Oxygen Demand (BOD5)		ND		ND		
Chemical Oxygen Demand (COD)		17 mg/L		17 mg/L	1	
Total Suspended Solids (TSS)		15.2 mg/L		15.2 mg/L	<b>1</b>	
Total Nitrogen		2.05 mg/L		2.05 mg/L		
Total Phosphorus		0.14 mg/L		0.14 mg/L		
ρΗ	Minimum 7.01	Maximum 7.01	Minimum 7.01	Maximum 7.01		

	Maximum Values (include units)		Aver	age Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants

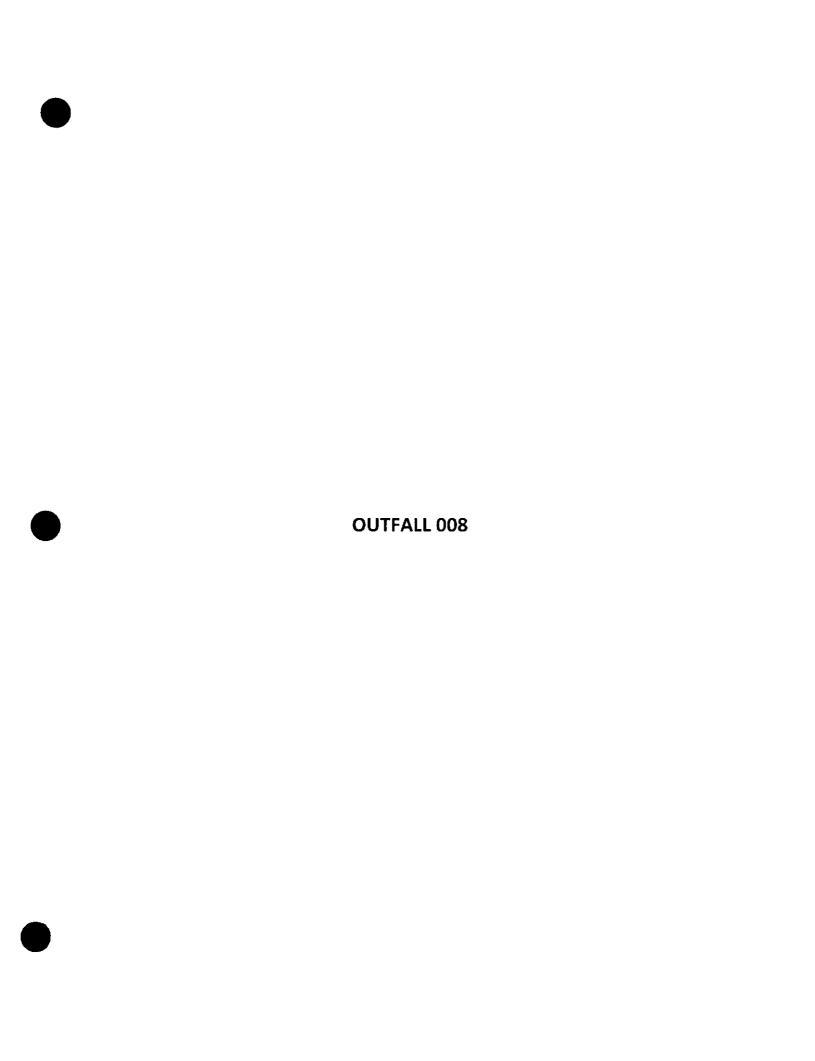
additional details and requ	irements. Comple	te one table for eac	h outfall.			
			Average Values (include			
1	Maximum Valu	es (include units)	units	)		
1			Grab Sample			
1	Grab Sample		(Taken during	Time-		
<u>.</u>	(Taken during	Time-Weighted	first 20	Weighted	Number of Storm	
Pollutant and CAS Number		Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	<2 MPN/100mL		<2 MPN/100mL			
Residual Chlorine	ND		ND			
Cyanide, Total	ND		ND			
Total Phenolics, High Level	ND	· <del>····································</del>	ND			
color		15	ļ	15		
Fluoride, IC		ND		ND		
Nitrate as N		1.15 mg/L		1.15 mg/L		
Nitrite as N		ND		ND		
Sulfate, IC		28.5 mg/L		28.5 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		ND		ND		
Ammonia as N		0.49 mg/L		0.49 mg/L		
Organic Nitrogen as N		0.41 mg/L		0.41 mg/L		
Aluminum, Total, ICP		0.438 mg/L		0.438 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.067 mg/L		0.067 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.037 mg/L		0.037 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		ND		ND		
Cobalt, Total, ICP		0.008 mg/L		0.008 mg/L		
Copper, Total, ICP		0.006 mg/L		0.006 mg/L		
Iron, Total, ICP		0.599 mg/L		0.599 mg/L		
Lead, Total, MS		3.33 mg/L		3.33 mg/L		
Magnesium, Total, ICP		5.9 mg/L		5.9 mg/L		
Manganese, Total, ICP		0.414 mg/L	ļ	0.414 mg/L		
Mercury, Total, CVAA		ND		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, M\$		0.005 mg/L		0.005 mg/L		
Selenium, Total, MS		ND		ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		ND	ļ	ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2,4,6-Trichlorophenol		NO NO		ND		
2,4-Dichlorophenot		ND		ND		
2,4-Dimethylphenol		ND		ND		
2,4-Dinitrophenal		ND		ND		
2,4-Dinitrotoluene		ND		ND		
2,6-Dinitrotoluene		ND		ND		
2-Chloronaphthalene		ND		ND		
2-Chlorophenol		ND		ND		

			Average Value	s (include		
	Maximum Values (include units)		1 -	units)		
			Grab Sample	ii		
	Grab Sample		(Taken during	Time-		
	(Taken during	Time-Weighted	first 20	Weighted	Number of Storm	
Pollutant and CAS Number		Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlarobenzidine		ND		ND ND		
4,6-Dinitro-2-						
methylphenol		ND		ND		
4-Bromophenyl-		ND		ND		
phenylether		ND		ND		
		ND		ND		
4-Chloro-3-methylphenol 4-Chlorophenyl-						
phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		NĐ		ND ND		
Acenaphthylene	<del> </del>	ND		ND ND		
Acenaphthylene		ND ND	-	ND ND		
Anthracene		ND ND		ND ND		
Azodenzene Benzidine		ND ND	<del> </del>			
		ND ND	<del> </del>	ND ND		
Benzo(a)anthracene						
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND	<u> </u>	ND ND		
Benzo(g,h,i)perylene		ND		ND ND		
Benzo(k)fluoranthene Bis(2-	-	ND	<u> </u>	ND		
chloroethoxy)methane		ND		ND		
Bis(2-chloroethy!) ether		ND		ND		
Bis(2-chloroisopropyl)						
ether		ND	i	ND		
Bis(2-ethylhexyl)		ND		ND		
phthalate		ND		ND		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND .		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien		ND		ND		
e						
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n- propylamine		ND		ND		
ргорујатите						
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		NĐ		

	Maximum Valu	es (include units)	Average Value units			
Pollutant and CAS Number	Grab Sample (Taken during	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm	Sources of Pollutants
	mist 20 minutes;	<u> </u>	minutes		Events Sampled	Sources or Pollucants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND		:
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		ND		ND		
4,4°-0DE		ND		ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		0.022 ug/L		0.022 ug/L		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		NO		ND		
Endrin ketone		ND		ND		
gamma-BHC (lindane)	-	ND	<del> </del>	ND		
gamma-Chlordane		0.014 ug/L		0.014 ug/L		
Heptachlor		ND		ND		
Heptachlor epoxide		ND ND	<del>                                     </del>	ND		
Methoxychlor		ND ND		ND ND		
PCB-1016		ND ND		ND ND		
PCB-1010				· · · · · · · · · · · · · · · · · · ·		
		ND		ND ND		
PCB-1232		ND		ND		
PCB-1242		ND	<b></b>	ND ND		
PCB-1248		ND		ND		
PC8-1254		ND		ND ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		1.2 pCi/L		1.2 pCi/L		
Gross Beta		5.2 pCi/L		5.2 pCi/L		
Radium 226		0.3 pCi/L		0.3 pCi/L		
Radium 228		0.9 pCi/L		0.9 pCi/L		
1,1,1-Trichloroethane		ND		ND		
1,1,2,2-Tetrachloroethane		NĎ		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

	Average Values (include					
	Maximum Valu	es (include units)	units	)		
			Grab Sample			
	Grab Sample		(Taken during	Time-		
	(Taken during	Time-Weighted	first 20	Weighted	Number of Storm	
Pollutant and CAS Number	first 20 minutes)	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromafarm		ND		NĎ		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chlaroform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		DN	-	ND		
Totuene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND	]	ND		

				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
12/22/2011	180	0.26	323	431.5	77675.4



### PART VII- OUTFALL 8

# 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
						4911- Power
Oil and Grease	ND		ND			Generation, 4953-
Biological Oxygen Demand						Waste Refuse Systems,
(BOD5)		ND		ND		4955- Hazardous Waste
Chemical Oxygen Demand						Management, 4961-
(COD)		22 mg/L		22 mg/L		System Heat
Total Suspended Solids		2 KBIII 22		22 mg/t		Generation/ Air
(TSS)		ND		ND		Conditioning Systems, 7538- Vehicle Repair
Total Nitrogen		0.92 mg/L		0.92 mg/L		Shop, 8731-
Total Phosphorus		ND		ND		Engineering, Chemical
			1			and Industrial
			i			Laboratories, 8734-
						Testing Laboratories,
рН	Minimum 7.02	Maximum 7.02	Minimum 7.02	Maximum 7.02	1	5541- Fueling Station

#### PART VII- OUTFALL 008

	Maximum Values (include units)		Ave	rage Values (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants	
				Not Applicable.			

additional details and requ	irements. Complete	e one table for each	outfall.			
	Mante: W. I	Average Values (include				
	Maximum Value	es (include units)	units	;}		
	Grab Sample		Grab Sample (Taken during	Time-		
	(Taken during first	Time-Weighted	first 20	Weighted	Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	240 MPN/100mL		240 MPN/100ml			
Residual Chlorine	ND		ND			
Cyanide, Total	ND		ND			
Total Phenolics, High Level	ND		ND			
color		35		35		
Fluoride, IC		0.40 mg/L		0.40 mg/L		
Nitrate as N		0.92 mg/L		0.92 mg/L		
Nitrite as N		ND		ND		
Sulfate, IC		10.5 mg/L		10.5 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		0.07 LAS		0.07 LAS		
Ammonia as N		ND		ND		
Organic Nitrogen as N		ND		ND		
Aluminum, Total, ICP		0.153 mg/L		0.153 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.092 mg/L		0.092 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, (CP		0.018 mg/L		0.018 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		ND		ND		
Cobalt, Total, ICP		ND		ND		
Copper, Total, ICP		0.008 mg/L		0.008 mg/L		
iron, Total, ICP		0.332 mg/L		0.332 mg/L		
Lead, Total, MS		ND		ND		
Magnesium, Total, ICP		4.51 mg/L		4.51 mg/L		
Manganese, Total, ICP		0.044 mg/L		0.044 mg/L		
Mercury, Total, CVAA		ND		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		0.002 mg/L		0.002 mg/L		
Selenium, Total, MS		ND		ND		
Silver, Total, MS		ND	ļ	ND		
Thallium, Total, MS		ND	ļ	ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND ND		
2,4,6-Trichlorophenol		ND ND		ND ND		
2,4-Dichlorophenol 2,4-Dimethylphenol		ND ND	-	ND ND		
2,4-Dinitrophenol		ND		ND		
<del></del>		ND	<u> </u>	ND		
2,4-Dinitrotoluene		ND		ND ND		
2,6-Dinitrotoluene		ND	<u> </u>	NĐ NĐ		
2-Chloronaphthalene		ND ND		ND ND		
2-Chlorophenol		ND	<u> </u>	ND		

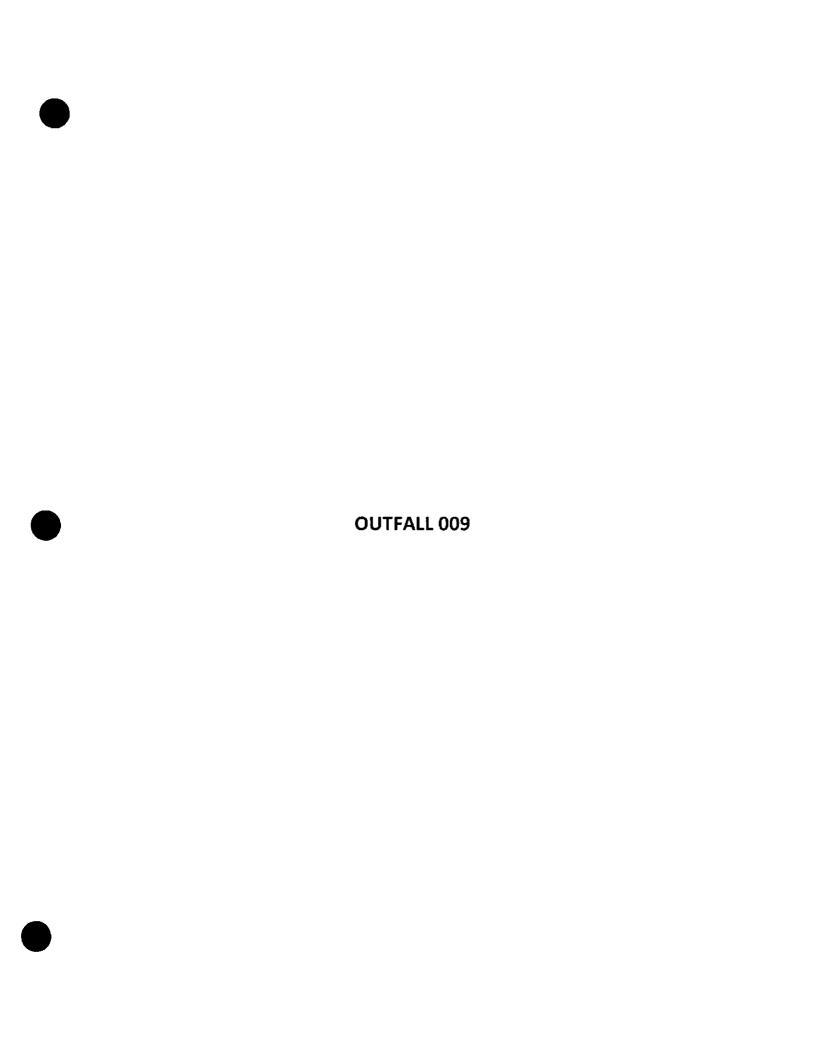
	Maximum Values (include units)		-	Average Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample {Taken during first 20 minutes}	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlorobenzidine		ND		ND		
4,6-Dinitro-2-				<del> </del>		
methylphenol		ND	1	ND		
4-Bromophenyl- phenylether		ND		ND		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl-		ND		ND		
phenylether						
4-Nitrophenol		ND		ND		
Acenaphthene		ND	<b>_</b>	ND		
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene		ND		ND		
Benzidine	ļ	ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ВD		МD		
Benzo(g,h,i)perylene		ND		ND	:	
Benzo(k)fluoranthene		ND		ND		
Bis(2- chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		NO		ND		
Bis(2-chloroisopropyl) ether		NÐ		ND		
Bis(2-ethylhexyl) phthalate		8.75 ug/L		·8.75 ug/L		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		NO		ND		
Fluorene		ND		ND		
Hexachlorobenzene		NO		ND	:	
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		:
Isaphorone		ND		ND		
N-Nitroso-di-n-		ND		ND		
propylamine		ND ND		ND ND		
N-Nitrosodimethylamine		ND ND		ND ND		
N-Nitrosodiphenylamine						
Naphthalene		ND		ND		
Nitrobenzene	<u> </u>	NĐ	1	ND		

	Maximum Values (include units)		Average Value units			
	· · · · · · · · · · · · · · · · · · ·	,	Grab Sample			
	Grab Sample		(Taken during	Time-		
	(Taken during first	Time-Weighted	first 20	Weighted	Number of Storm	
Pollutant and CAS Number		Composite	minutes)	Composite	Events Sampled	Sources of Pollutant
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND		
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		МÐ		NO		
4,4'-DDE		ND		ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		NĐ		
Endrin aldehyde		ND		ND		
Endrin ketone		DN		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND		ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		NĐ		
PC8-1221		ND		ΝĐ		
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248		DA		ND		
PCB-1254		ND		ND		
PCB-1260		- ND		ND	:	
Toxaphene		ND		ND		
Gross Alpha		1.4 ρCi/L		1.4 pCi/L		
Gross Beta		5.0 pCi/L		5.0 pCi/L		
Radium 226		0.4 pCi/L		0.4 pCi/L		
Radium 228		ND	Î	ND		
1,1,1-Trichloroethane		ND		ND		
L,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane	···	ND		ND ND		
1,1-Dichloroethane		ND	·	ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		NÐ		ND		

			Average Value	es (include		
	Maximum Value	s (include units)	units	<b>(</b> )		
			Grab Sample			
	Grab Sample		(Taken during	Time-		
	(Taken during first	Time-Weighted	first 20	Weighted	Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Bénzene		ND		NĎ		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		NO		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		NĐ		
Chloroform		ND		ND		
Chloromethane		ND		ND	]	
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

PART VII- OUTFALL 008

				5. Maximum flow rate	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
5/21/2012	180	0.1	105	16.8	3019.6



## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		35.4 mg/L		35.4 mg/L		4953- Waste Refuse Systems, 7997- Golf Courses
Chemical Oxygen Demand (COD)		132 mg/L		132 mg/L	1	
Total Suspended Solids (TSS)		30.0 mg/L		30.0 mg/L	_	
Total Nitrogen		0.45 mg/L		0.45 mg/L		
Total Phosphorus		0.13 mg/L		0.13 mg/L		
рН	Minimum 6.78	Maximum 6.78	Minimum 6.78	Maximum 6.78		

	Maximum Values (include units)		Avei	rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
V			<b></b>	Not Applicable.	Events sampled	Sources of Foliate

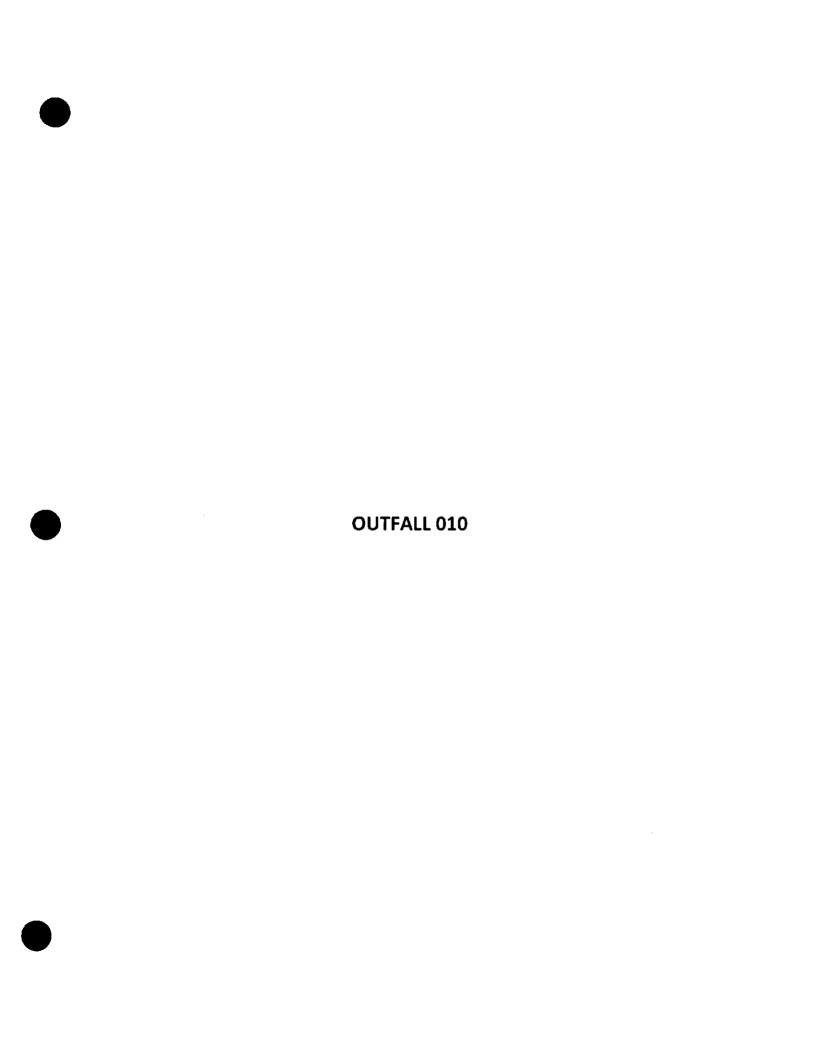
details and requirements. Complete one table for each outfall.								
	Maximum Values (include units)		Average Values (inc	lude units)				
	Grab Sample (Taken		Grab Sample (Taken	Time-				
<b>J</b>	Grab Sample (Taken during first 20	Time-Weighted		i ime- Weighted	Number of Storm			
Pollutant and CAS Number		Composite	minutes)	Composite	Number of Storm Events Sampled	Sources of Pollutants		
Fecal Coliform, MPN	>1600 MPN/100mL	,	>1600 MPN/100mL	,	эчтриси	on orang		
Residual Chlorine	<0.1 mg/L		<0.1 mg/L					
Cyanide, Total	ND ND		ND ND					
Total Phenolics, High Level	ND		ND ND					
color		100		100				
Fluoride, IC		ND ND		ND ND				
Nitrate as N		0.45 mg/L		0.45 mg/L				
Nitrite as N		0.45 mg/L		0.45 mg/L				
Sulfate, IC		8.26 mg/L		8.26 mg/L				
Sulfite		ND ND		ND				
Surfactants (MBAS)		ND		ND ND				
Ammonia as N	··· · · · · · · · · · · · · · · · · ·	ND		ND ND				
Organic Nitrogen as N		2.47 mg/L		2.47 mg/L				
Aluminum, Total, ICP		0.591 mg/L		0.591 mg/L				
Antimony, Total, MS		ND ND		ND				
Arsenic, Total, MS		ND		ND				
Barium, Total, ICP		0.033 mg/L		0.033 mg/L				
Beryllium, Total, MS		ND ND		ND ND				
Boron, Total, ICP		0.025 mg/L		0.025 mg/L				
Cadmium, Total, MS		ND ND		ND				
Chromium, Total, MS		ND ND		ND				
Cobalt, Total, ICP		ND		ND				
Copper, Total, ICP		0.023 mg/L		0.023 mg/L				
Iron, Total, ICP		0.917 mg/L		0.917 mg/L				
Lead, Total, MS		ND		ND ND				
Magnesium, Total, ICP		1.90 mg/L		1.90 mg/L				
Manganese, Total, ICP		0.134 mg/L		0.134 mg/L				
Mercury, Total, CVAA		ND		ND				
Molybdenum, Total, ICP		ND		ND				
Nickel, Total, MS		0.007 mg/L		0.007 mg/L				
Selenium, Total, MS		ND		ND				
Silver, Total, MS		ND		ND				
Thallium, Total, MS		ND		ND				
Tin, Total, ICP		0.023 mg/L		0.023 mg/L				
1,2,4-Trichlorobenzene		ND		ND				
1,2-Dichlorobenzene		ND		ND				
1,3-Dichlorobenzene		ND		ND				
1,4-Dichlorobenzene		ND		ND	1			
2,4,6-Trichlorophenol		ND		ND				
2,4-Dichlorophenol		ND		ND	ļ			
2,4-Dimethylphenol		ND		ND				
2,4-Dinitrophenol		ND		ND				
2,4-Dinitrotoluene		ND		ND				
2,6-Dinitrotoluene	]	ND		ND				
2-Chloronaphthalene		ND		ND				
2-Chlorophenol		ND		ND				

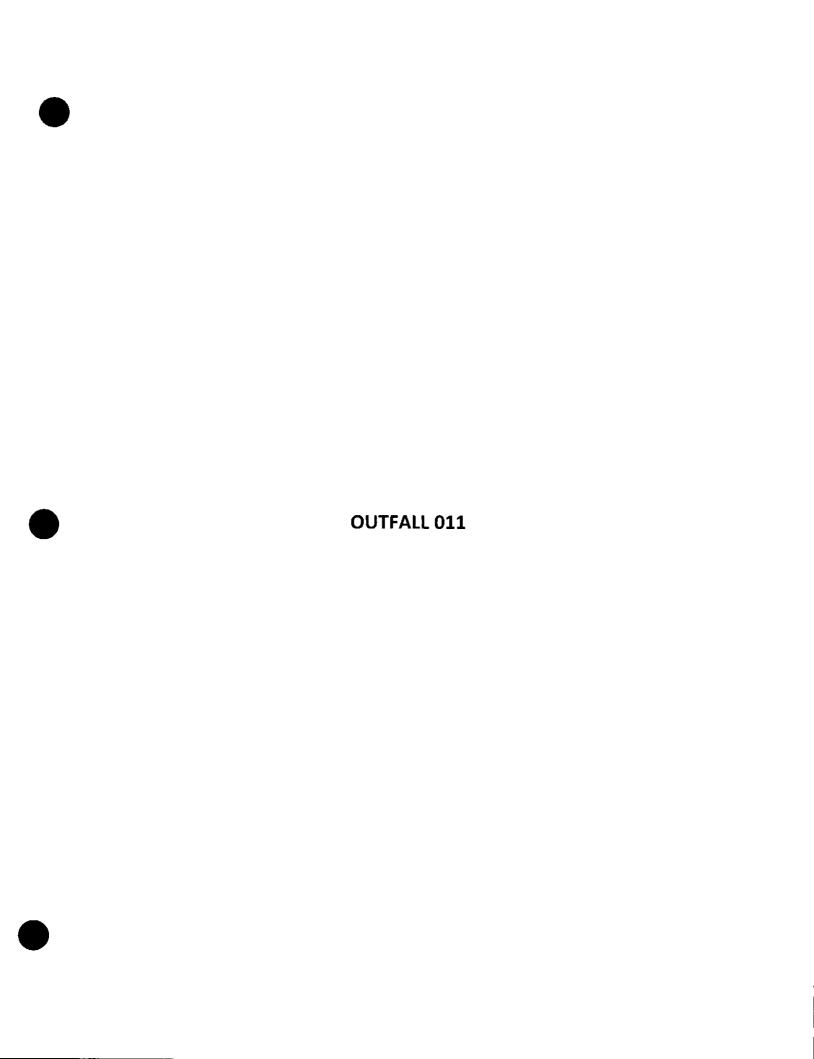
	Maximum Values (include units)		Average Values (inc	lude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlorobenzidine		ND		ND		
4,6-Dinitro-2-		ND		ND		
methylphenol		ND		ND		
4-Bromophenyl- phenylether		ND		ND		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl- phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND	:	
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene		NĐ .		ND		
Benzidine		ND ND	·	ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene		ND		ND		
Bis(2- chloroethoxy)methane	:	NĐ		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bìs(2-chloroìsopropyl) ether		ND		ND		
Bis(2-ethylhexyl) phthalate		ND		ND		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		NO		
Hexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n- propylamine		ND		ND		
N-Nitrosodimethylamine		ПИ		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

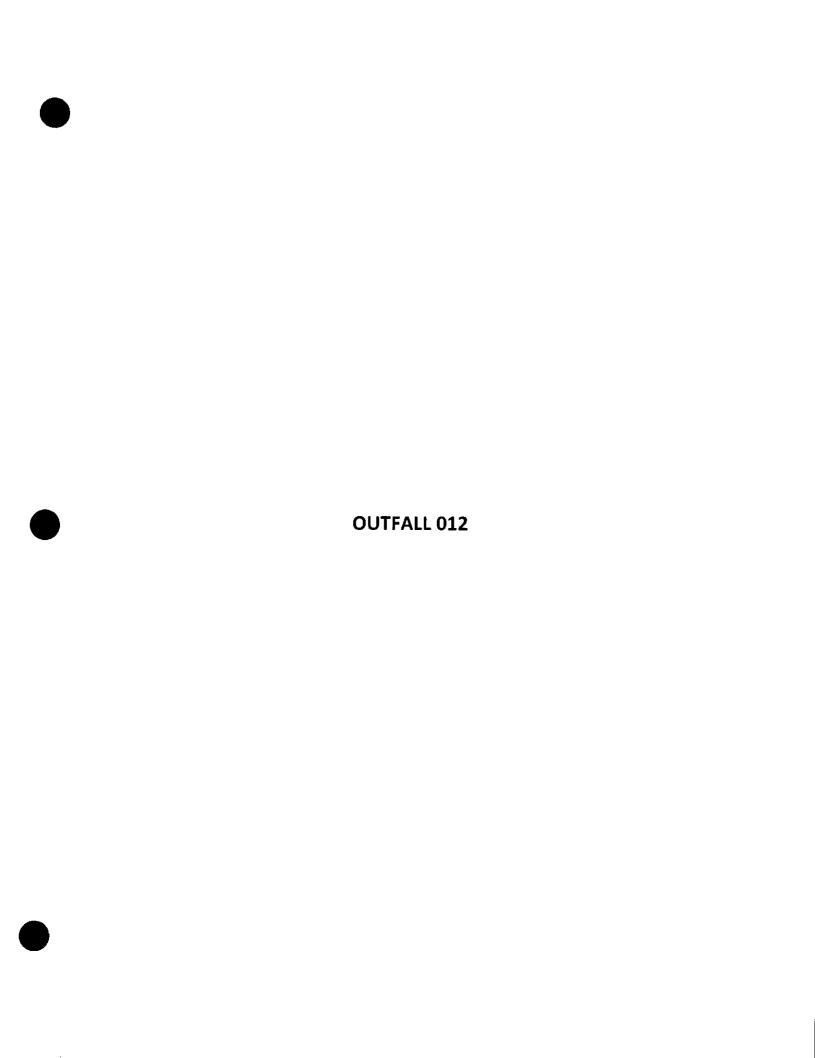
	Maximum Values	(include units)	Average Values (inc	verage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		NĎ		
Phenol		ND		ND ND		
Pyrene		ND		ND ND		
4,4'-DDD		ND		ND		
4,4'-DDE		ND		ND ND		
4,4'-DDT		ND ND		ND ND		
Aldrin		ND				
				ND ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		DN		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aidehyde		ND		NĐ		
Endrin ketone	<u> </u>	ND		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND		ND		
Heptachlor	· ·	ND		ND		
Heptachlor epoxide	T	ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND ND		
<del></del>						•
PCB-1221		ND	,	ND ND		
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248	·	ND		ND		
PCB-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		ND		ND		
Gross Beta		2.78 pCi/L		2.78 pCi/L		
Radium 226		ND		ND		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
.,1,2,2-Tetrachloroethane		NĐ		ND		
1,1,2-Trichloroethane	•••	ND		ND		
1,1-Dichloroethane		NO		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlarobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

	Maximum Values (	include units)	Average Values (inc	lude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		NΩ		ND		
Chloroethane		ND		ND		
Chlaraform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

				5. Maximum flow rate	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
10/19/2011	180	0.53	112	605.25	108945.71







## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	s (include units)		Sources of Pollutants
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		ND		ND		4955- Hazardous Waste
Chemical Oxygen Demand (COD)	···	23 mg/L		23 mg/L	1	Management, 5812- Dining facilities, 7538-
Total Suspended Solids (TSS)		7.0 mg/L		7.0 mg/L	1	Genral Automotive Repair Shop, 7542 Car washes
Total Nitrogen		1.25 mg/L		1.25 mg/L		
Total Phosphorus		ND		ND		
рΗ	Minimum 7.61	Maximum 7.61	Minimum 7.61	Maximum 7.61		

	Maximum Value	imum Values (include units)		rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
CAS Number	20 minutes)	Composite		Not Applicable.	Events sampled	Sources of Pollute

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

details and requirements.	Complete one table	for each outfall.				
	Maximum Value	s (include units)	Average Values (in	clude units)		
	Grab Sample (Taken during first	Time-Weighted	Grab Sample (Taken during first	Time- Weighted	Number of Storm	
Pollutant and CAS Number	l' "	Composite	20 minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	500 MPN/ 100mL	,	500 MPN/ 100mL			T.D. 505 OF ORGERIES
Residual Chlorine	ND		ND	<del>                                     </del>		
Cyanide, Total	ND ND		ND	<del>                                     </del>		
Total Phenolics, High Level	NID.		ND			
color		100		100		
Fluoride, IC		ND	<u> </u>	ND		
Nitrate as N		0.79 mg/L		0.79 mg/L		
Nitrite as N		ND		ND		
Sulfate, IC		9.65 mg/L		9.65 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		0.06 mg/L		0.06 mg/L		
Ammonia as N		0.32 mg/L		0.32 mg/L		
Organic Nitrogen as N		ND		ND ND		
Aluminum, Total, ICP		0.538 mg/L	L	0.538 mg/L		
Antimony, Total, MS		ND		ND .		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.06 mg/L		0.06 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.092 mg/L		0.092 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, M\$		0.005 mg/L		0.005 mg/L		
Cobalt, Total, ICP		ND		ND		
Copper, Total, ICP		0.030 mg/L		0.030 mg/L		
Iron, Total, ICP		1.99 mg/L		1.99 mg/L	i	
Lead, Total, MS		ND		ND		
Magnesium, Total, ICP		4.75 mg/L		4.75 mg/L		
Manganese, Total, ICP		ND		ND		
Mercury, Total, CVAA		ND .		ND	)	
Molybdenum, Total, ICP		ND		ND	Ì	İ
Nickel, Total, MS		0.004 mg/L		0.004 mg/L		İ
Selenium, Total, MS		ND		ND		İ
Silver, Total, MS		ND		ND		İ
Thallium, Total, MS		ND		ND		İ
Tin, Total, ICP		ND		ND		İ
1,2,4-Trichlorobenzene		ND		ND		İ
1,2-Dichlorobenzene		ND		ND		İ
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND ND	ļ	İ
2,4,6-Trichlorophenol		ND		ND		
2,4-Dichlorophenol		ND - ND		ND D		
2,4-Dimethylphenol		- ND		ND		
2,4-Dinitrophenol		ND ND		ND		
2,4-Dinitrotoluene	-	ND ND		ND		
2,6-Dinitratoluene		ND NO		ND ND		
2-Chloronaphthalene		ND		ND		
2-Chlorophenol		ND		ND		

:	Maximum Value	s (include units)	Average Values (in	Average Values (include units)		
	Grab Sample {Taken during first	_	Grab Sample (Taken during first	_	Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	20 minutes)	Composite	Events Sampled	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlorobenzidine 4,6-Dinitro-2-		ND	•	ND		
methylphenol		ND		ND		
4-Bromophenyl-						
phenylether		ND		ND		
action will i		ND		ND		
4-Chloro-3-methylphenol 4-Chlorophenyl-						
phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND		
Acenaphthylene		ND		· ND		
Anthracene		ND	1	ND		
Azobenzene		ND .		ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		NĐ		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene		ND		ND		
Bis(2-						
chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl)		ND		ND		
ether	-	ND		INE		
Bis(2-ethylhexyl)		ND		ND		
phthalate Butyibenzylphthalate		NO		110		
Chyrsene		NO ND		ND NO		
		ND ND		ND		
Di-n-butylphthalate Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND ND		ND		
Diethy/phthalate	-	ND ND		ND		
Dimethyl phthalate		ND ND		ND ND	İ	
Fluoranthene		ND ND		ND ND		
Fluorene		ND ND		ND ND		
Hexachlorobenzene		ND		ND ND		
Hexachiorobutadiene		ND		ND ND		
lexachlorocyclopentadien						
e		ND		ND		
Hexachloroethane		ND		ND	ŀ	
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n-		ND		ND		
propylamine						
N-Nitrosodimethylamine		ND		- DN		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

	Maximum Value	Maximum Values (include units)		clude units)		
<sup>o</sup> ollutant and CAS Number	Grab Sample {Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Pentachlorophenol		NĎ		ND		
Phenanthrene		ND		ND ND		
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		ND	<del>                                     </del>	ND		
4,4'-DDE						
<del></del>		ND	<del> </del>	NO NO		
4,4'-DDT		ND		NO		
Aldrin		ND ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND		NĎ		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND	-	ND		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PCB-1242		ND				
PCB-1248		ND		ND		
PCB-1254				ND		
PCB-1254 PCB-1260		ND		ND ND		
		ND ND		ND		
Toxaphene Cross Alpha	*********	ND		ND MD		
Gross Alpha		ND ND		ND		
Gross Beta		ND		ND		
Radium 226		0.4 pCi/L		0.4 pCi/L		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		NĐ		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		NĎ	İ	
2-Chloroethylvinyl ether		ND		ND		

	Maximum Value	s (include units)	Average Values (in	clude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		NĐ		ND		
Bromoform		ND		, ND		
Bromomethane		ND		NO		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chloroform		ND		ND		
Chloromethane		ND		. ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		



				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm event	Duration of Storm     Event (in minutes)	storm event (in inches)	of storm measured and end of previous measurable event.	(gallons/minute or specify units)	event (gallons or specify units)
	evene (iii) minutes/	menesy.	measurable event.	umis)	specify units/
1/24/2012	180	0.03	149	8.5	1529.9

**OUTFALL 013** 

### 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	s (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	ND		ND				
Biological Oxygen Demand (BOD5)		42.8 mg/L		42.8 mg/L			
Chemical Oxygen Demand (COD)		161 mg/L		161 mg/L	1	5541- Fueling Station, 5812- Dining Facilities, 7542- Carwashes	
Total Suspended Solids (TSS)		25.9 mg/L		25.9 mg/L			
Total Nitrogen		1.43 mg/L		1.43 mg/L			
Total Phosphorus		1.82 mg/L		1.82 mg/L			
рН	Minimum 6.73	Maximum 6.73	Minimum 6.73	Maximum 6.73			

	Maximum Value	s (include units)	Ave	rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20 Time-Weighted Composite		Number of Storm Events Sampled	Sources of Pollutants
CASTRUMBER	20 minutesy	Composite	<u></u>	Not Applicable.	Events Sampled	Sources of Pollut

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall. Average Values (include Maximum Values (include units) units) Grab Sample Grab Sample Time-(Taken during Time-Weighted (Taken during Weighted Number of Storm first 20 minutes) Composite first 20 minutes) Sources of Pollutants Pollutant and CAS Number Composite **Events Sampled** Fecal Coliform, MPN 17 MPN/ 100mL 17 MPN/ 100mL Residual Chlorine ND ND Cyanide, Total ND ND ND ND Total Phenolics, High Level 250 color 250 Fluoride, IC  $0.10\,\mathrm{mg/l}$ 0.10 mg/L Nitrate as N 5.31 mg/L 5.31 mg/L Nitrite as N 1.43 mg/L 1.43 mg/L Sulfate, IC 14.3 mg/L 14.3 mg/L Sulfite ND ND 2.40 mg/L 2.40 mg/L Surfactants (MBAS) Ammonia as N 0.74 mg/L 0.74 mg/L 3.14 mg/L Organic Nitrogen as N 3.14 mg/L 0.485 mg/L 0.485 mg/L Aluminum, Total, ICP 0.003 mg/L 0.003 mg/L Antimony, Total, MS Arsenic, Total, MS ND ND Barium, Total, ICP 0.010 mg/L 0.010 mg/L Beryllium, Total, MS ND ND 0.035 mg/L Boron, Total, ICP 0.035 mg/L Cadmium, Total, MS ND ND 0.002 mg/L 0.002 mg/L Chromium, Total, MS Cobalt, Total, ICP ND 0.018 mg/L Copper, Total, ICP 0.018 mg/L Iron, Total, ICP 0.775 mg/L 0.775 mg/L Lead, Total, MS 0.002 mg/L 0.002 mg/L Magnesium, Total, ICP 1.17 mg/L 1.17 mg/L 0.040 mg/L Manganese, Total, ICP 0.040 mg/L Mercury, Total, CVAA Molybdenum, Total, ICP 0.005 mg/L 0.005 mg/L Nickel, Total, MS  $0.003\,\mathrm{mg/L}$ 0.003 mg/L Selenium, Total, MS ND Silver, Total, MS ND ND Thallium, Total, MS ND ND Tin, Total, ICP ΝĐ ND 1,2,4-Trichlorobenzene NĐ ND 1,2-Dichlorobenzene ND ND 1,3-Dichlorobenzene ND ND 1,4-Dichlorobenzene ND ND 2,4,6-Trichlorophenol ND ND 2,4-Dichlorophenal ND NĎ 2,4-Dimethylphenol ND ND 2,4-Dinitrophenol ND ND 2,4-Dinitrotoluene ND ΝĐ 2,6-Dinitrotoluene ND ND 2-Chloronaphthalene ND ND

ND

NO

2-Chlorophenol

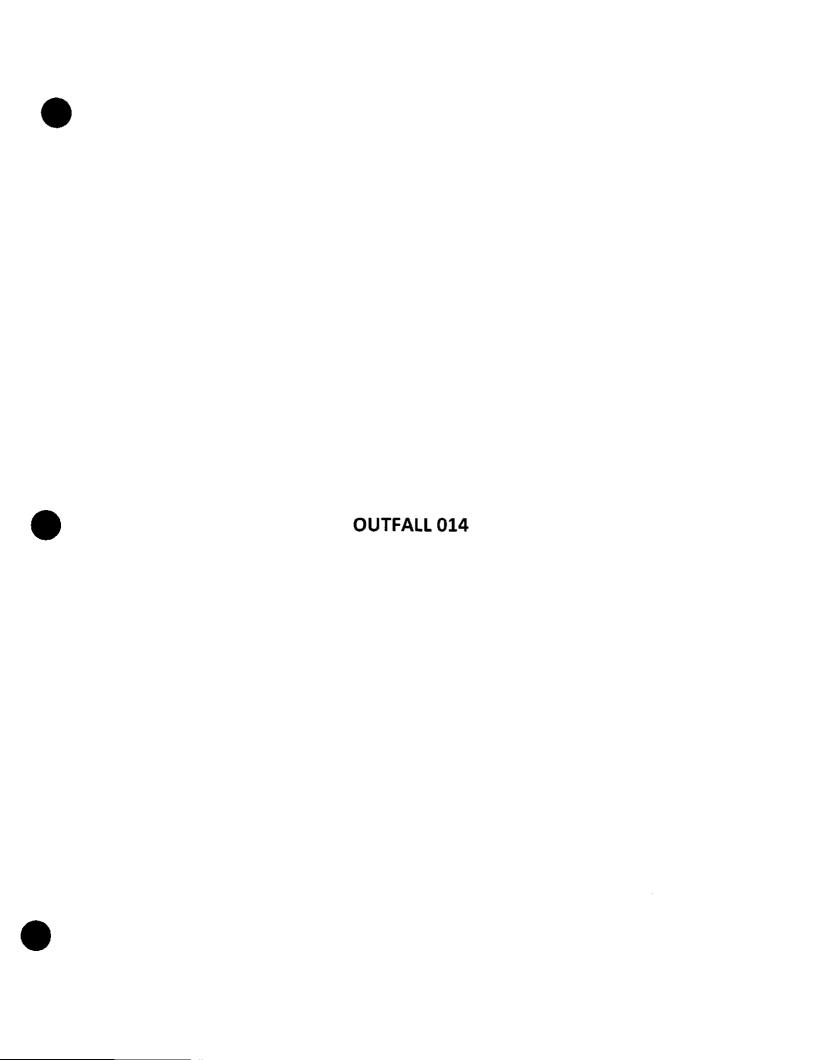
			Average Values (include			
	Maximum Value	es (include units)	units)	units)		
	Grab Sample (Taken during	Time-Weighted	Grab Sample (Taken during	Time- Weighted	Number of Storm	
Pollutant and CAS Number	first 20 minutes)	Composite	first 20 minutes)	Composite	Events Sampled	Sources of Pollutants
2-Nitrophenol		ОИ		ND		
3,3'-Dichlorobenzidine		ND		ND		
4,6-Dinitro-2- methylphenol		ИĎ		ND		
4-Bromophenyl-						
phenylether		ND		ND		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl- phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND		
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene		ND		ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		NĎ		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene Bis(2-		ND		ND		
chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl) ether		ND		ND		
Bis(2-ethylhexyl) phthalate		124.0 ug/L		124.0 ug/L		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		NĐ		
N-Nitroso-di-n- propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

	Maximum Values (include units)		Average Value units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	-Time- Weighted Composite	Number of Storm Events Sampled	Sources of Poliutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND ND		
Phenol						
		ND ND	ļ	ND ND		
Pyrene		ND		ND		
4,4'-DDD		ND		ND		
4,4'-DDE		ND		ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND	<u> </u>	ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND		ND		
Heptachlor		ND		ND ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016						
PCB-1010		ND		ND .		
		ND		ND 		
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248		ND		ND		
PCB-1254		ND		ND ND		
PCB-1260		ND		МĐ		
Toxaphene		ND		ND		
Gross Alpha		ND		ND		
Gross Beta		ND		ND		
Radium 226		ND		ND		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
.,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND	_	
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND	·····	ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND	I	
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

			Average Value	s (include		
	Maximum Value	es (include units)	units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND	<u> </u>	ND		
Chloroform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		NĎ		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachioroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		NÐ		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		



				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
4/12/2011	180	0.23	84	7.5	1349.0



## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	s (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants	
Oil and Grease	ND		ND				
Biological Oxygen Demand (BOD5)		22.5 mg/L		22.5 mg/L			
Chemical Oxygen Demand (COD)		113 mg/L		113 mg/L	1	5541- Fueling Station,	
Total Suspended Solids (TSS)		23.6 mg/L		23.6 mg/L	_	5812- Dining Facilities	
Total Nitrogen		3.81 mg/L		3.81 mg/L	1		
Total Phosphorus		0.12 mg/L		0.12 mg/L	1		
рН	Minimum 7.06	Maximum 7.06	Minimum 7.06	Maximum 7.06	1		

	Maximum Value	s (include units)	Aver	age Values (include units)		
Pollutant and CAS Number	Grab Sample Sample (Taken during first Time-Weighted during first		(Taken during first	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
				lot Applicable.		•

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

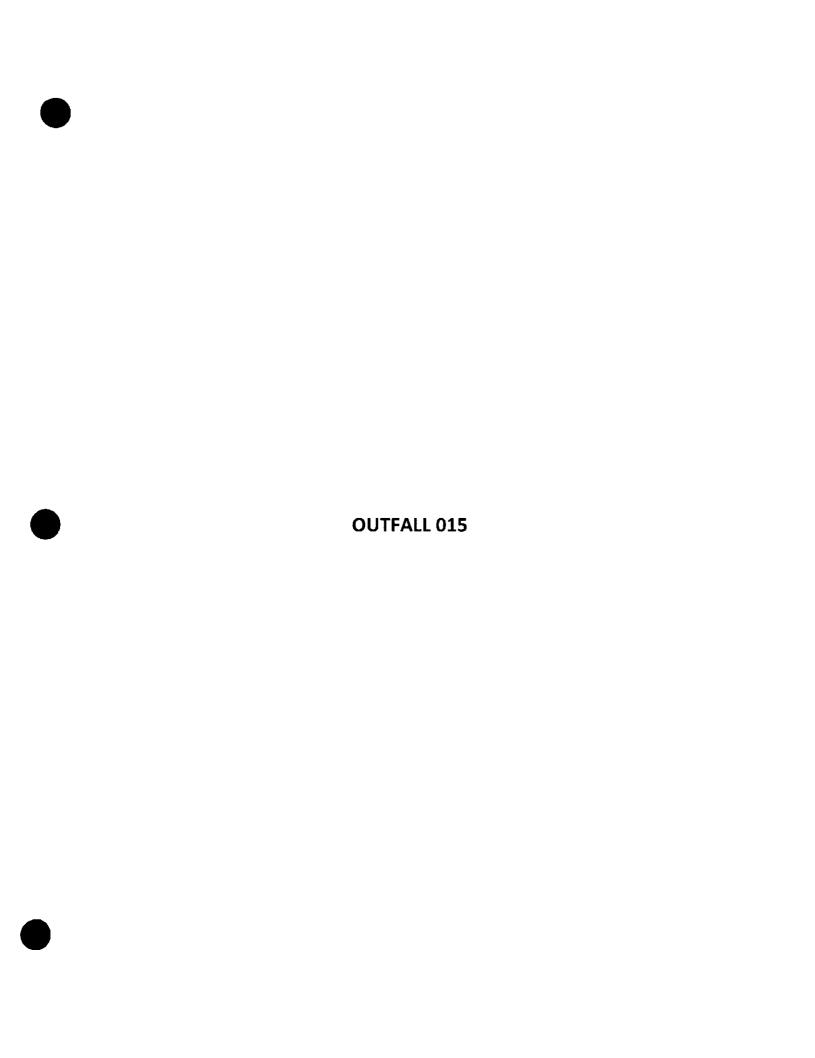
additional details and requ			Average Value	s (include		
	Maximum Value	es (include units)	units			
	Grah Carret	<b>)</b>	Grab Sample	<b>,</b> , , , ,		
	Grab Sample (Taken during	Time-Weighted	(Taken during first 20	Time- Weighted	Number of St	1
Pollutant and CAS Number	1 ' - 1	Composite	minutes)	Composite	Number of Storm Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	11 MPN/ 100mL	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11 MPN/ 100mL		гользыпріец	Sources of Foliutants
Residual Chlorine	ND ND	<del>                                     </del>		<del> </del>	1	
Cyanide, Total	ND ND	<del>                                     </del>	ND	<del>  </del>	1	
Total Phenolics, High Level	ND		ND ND			
color	<b></b>	250	<del> </del>	350		
color Fluoride, IC	<del>                                     </del>		<del> </del>	250 0.13 mg/l	1	
	1	0.13 mg/L	<del>                                     </del>	0.13 mg/L	t .	
Nitrate as N	<del>- 1</del>	3.81 mg/L	<del> </del>	3.81 mg/L	1	
Nitrite as N	+ +	2.00 mg/L	<del>                                     </del>	2.00 mg/L	1	
Sulfate, IC	<del>                                     </del>	12.4 mg/L	<del></del>	12.4 mg/L	1	
Sulfite Surfactants (MRAS)	<del>  </del>	ND	<del></del>	ND		
Surfactants (MBAS)	<b> </b>	0.71 mg/L		0.71 mg/L		
Ammonia as N	<b></b>	0.65 mg/L	<u> </u>	0.65 mg/L		
Organic Nitrogen as N	<del>                                     </del>	1.16 mg/L		1.16 mg/L		
Aluminum, Total, ICP	ļ	1.27 mg/L	<b></b>	1.27 mg/L		
Antimony, Total, MS	1	0.004 mg/L	<u> </u>	0.004 mg/L	1	
Arsenic, Total, MS		ND		ND "		
Barium, Total, ICP		0.013 mg/L		0.013 mg/L		
Beryllium, Total, MS	1	ND		ND	1	
Boron, Total, ICP		0.046 mg/L		0.046 mg/L		
Cadmium, Total, MS	<u> </u>	ND		ND		
Chromium, Total, MS		0.004 mg/L		0.004 mg/L	1	
Cobalt, Total, ICP		ND		ND		
Copper, Total, ICP		0.036 mg/L		0.036 mg/L		
Iron, Total, ICP		1.34 mg/L		1.34 mg/L	·	1
Lead, Total, MS		0.002 mg/L		0.002 mg/L	·	1
Magnesium, Total, ICP		0.983 mg/L		0.983 mg/L	1	1
Manganese, Total, ICP		0.026 mg/L		0.026 mg/L	· i	1
Mercury, Total, CVAA		ND		ND	1	1
Molybdenum, Total, ICP		0.007 mg/L		0.007 mg/L	}	1
Nickel, Total, MS		0.003 mg/L		0.003 mg/L	ļ	1
Selenium, Total, MS		ND		ND	ļ	1
Silver, Total, MS		ND		ND	ļ	1
Thallium, Total, MS		ND		ND	ļ	1
Tin, Total, ICP		ND		ND		1
1,2,4-Trichlorobenzene		ND		ND	1	1
1,2-Dichlorobenzene	1	ND		ND	l	•
1,3-Dichlorobenzene		ND		ND	į	
1,4-Dichlorobenzene		ND		ND		
2,4,6-Trichlorophenol		ND		ND	i	
2,4-Dichloraphenal		ND		ND	ļ	1
2,4-Dimethylphenol		ND		ND	l	
2,4-Dinitrophenol		ND		ND	į	
2,4-Dinitrotoluene		ND		ND	l	
2,6-Dinitrotoluene		ND		ND	l	
2-Chloronaphthalene		ND	-	ND	l	
2-Chlorophenol		ND		ND	l	

<u> </u>			Average Values (include			
	Maximum Valu	es (include units)	units			
	Grab Sample (Taken during	Time-Weighted	Grab Sample (Taken during first 20	Time- Weighted	Number of Storm	
Pollutant and CAS Number		Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlorobenzidine		ND	<del></del>	ND		
4,6-Dinitro-2-						
methylphenol		ND		ND		
4-Bromophenyl- phenylether		ND		ND		
4-Chloro-3-methylphenol 4-Chlorophenyl-		ND		ND		
phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND		
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene		ND		ND		
8enzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		NĐ		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene		NĐ		ND		
Bis(2- chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl) ether		ND		ND		
Bis(2-ethylhexyl) phthalate		13.0 ug/L		13.0 ug/L		
Butylbenzylphthalate		ND	<u> </u>	ND		
Chyrsene		ND		ND ND		
Di-n-butylphthalate		ND		ND ND		
Di-n-octyl phthalate		ND				
Dibenzo(a,h)anthracene		ND		ND ND		
Diethylphthalate		ND ND		ND		
Dimethyl phthalate		ND ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien						
e Hexachloroethane	-	ND		ND		
		NO NO		ND ND		
Indeno(1,2,3-cd)pyrene Isophorone		ND		ND		
N-Nitroso-di-n-		ND	<u>-</u>	ND		
propylamine		ND		ND		
N-Nitrosodimethylamine		ND	•	ИĎ		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

	Maximum Values (include units)		_	Average Values (include units)		
	Grab Sample (Taken during	Time-Weighted	Grab Sample (Taken during first 20	Time- Weighted	Number of Storm	
Pollutant and CAS Number	first 20 minutes)	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND		
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		ND	<u> </u>	ND		
4,4'-DDE		ND	, .	ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND	<del> </del>	ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		ND		
gamma-8HC (lindane)		ND		ND ND		
gamma-Chlordane		ND		ND		
Heptachior		ND		ND		
Heptachlor epoxide		ND ND		ND		
Methoxychlor		ND		ND ND		
PC8-1016		ND				
PCB-1221				ND ND	;	
PCB-1221		ND ND		ND		
PCB-1232		ND ND		ND ND		
PCB-1242				ND		
PCB-1254		ND		ND		
PCB-1254 PCB-1260		ND		ND ND		
		ND ND		ND		
Toxaphene Gross Alpha		ND ND		ND ND		
Gross Alpha Gross Beta		ND ND		ND ND		
Radium 226		ND ND	<b></b>	ND ND		
Radium 228		NĐ NĐ		ND ND		
1,1,1-Trichloroethane		ND ND		ND		
4,1,1-monuroeurane		UND		ND		
1,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

			Average Value	es (include		,
	Maximum Value	es (include units)	units	)		•
			Grab Sample			
1	Grab Sample		(Taken during	Time-		
	(Taken during	Time-Weighted	first 20	Weighted	Number of Storm	
Pollutant and CAS Number	first 20 minutes)	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chloroform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichioropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		NĐ		
Vinyl chloride		ND		ND		

		"		<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
<ol> <li>Date of Storm</li> </ol>	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
4/12/2011	180	0.23	84	4.5	805.7



## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

		I 41 1		· · · · · · ·		
	Maximum va	lues (include units) Average \		s (include units)		1
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			4959- Snow
Biological Oxygen Demand (BOD5)		7.00 mg/L		7.00 mg/L		Plowing/Street Sweping, 4911- Power
Chemical Oxygen Demand (COD)		31.7 mg/L		31.7 mg/L	1	Generation, 4952- Sewage Pumping
Total Suspended Solids (TSS)		61.3 mg/L		61.3 mg/L	-	station, 4953- Waste Facility, 5541- Fueling
Total Nitrogen		2.53 mg/L		2.53 mg/L		Station, 7538- Vehicle
Total Phosphorus		0.342 mg/L		0.342 mg/L		Maintenance Shop,
рΗ	Minimum 7.71	Maximum 7.71	Minimum 7.71	Maximum 7.71		7542- Car washes

	Maximum Values (include units		Ave	rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
CAS NOTIFICE	20 minutes)	Composite	<u> </u>	Not Applicable.	events sampled	Sources of Politic

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

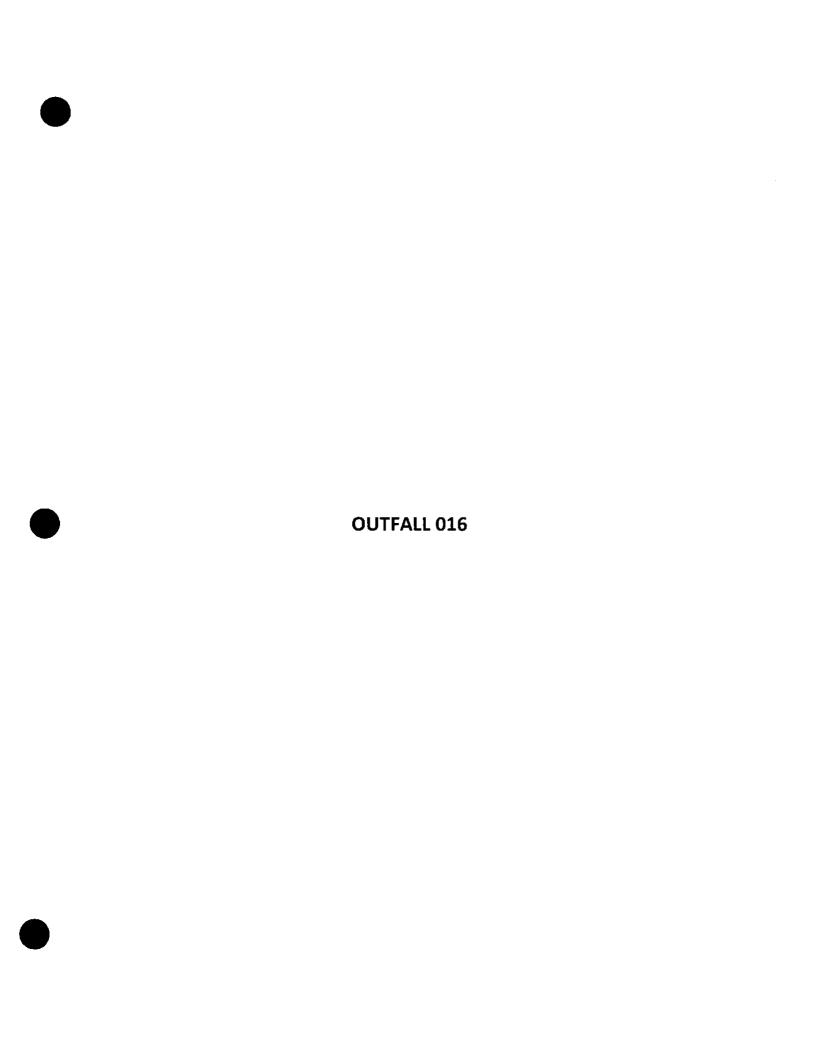
additional details and requ	irements. Complete	e one table for each	outfall.			
			_	Average Values (include		
	Maximum Values (include units)		units)			
			Grab Sample			
	Grab Sample		(Taken during	Time-	Number of	
	(Taken during first		first 20	Weighted	Storm Events	
Pollutant and CAS Number		Composite	minutes)	Composite	Sampled	Sources of Pollutants
Fecal Coliform, MPN	<2 col/100 mL		<2 col/100 mL			
Residual Chlorine	NĐ		ND			
Cyanide, Total	NĐ		ND			
Total Phenolics, High Level	0.0210 mg/L		0.0210 mg/L			
color		200		200		
Fluoride, IC		ND		ND		
Nitrate as N		0.950 mg/L		0.950 mg/L		
Nitrite as N		ND		ND		
Sulfate, IC		ND		ND		
Sulfite		ND		ND		
Surfactants (MBAS)		0.0880 mg/L		0.0880 mg/L		
Ammonia as N		0.980 mg/L		0.980 mg/L		
Organic Nitrogen as N		0.596 mg/L		0.596 mg/L		
Aluminum, Total, ICP		1.79 mg/L		1.79 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		NO		
Barium, Total, ICP		0.0262 mg/L		0.0262 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.0569 mg/L		0.0569 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		0.00680 mg/L		0.00680 mg/l	-	
Cobalt, Total, ICP		ND		ND		
Copper, Total, ICP		0.0280 mg/L		0.0280 mg/L		
Iron, Total, ICP		2.36 mg/L		2.36 mg/L		
Lead, Total, MS		0.00830 mg/L		0.00830 mg/t	-	
Magnesium, Total, ICP		2.77 mg/L		2.77 mg/L		
Manganese, Total, ICP		0.0713 mg/L		0.0713 mg/L		
Mercury, Total, CVAA		ND		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		ND		ND		
Selenium, Total, MS		ND		ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		ND		ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND NB		ND		
1,2-Dichlorobenzene		ND ND		ND		
1,3-Dichlorobenzene		ND ND		ND		
1,4-Dichlorobenzene 2,4,6-Trichlorophenol		ND ND		ND		
2,4-Dichlorophenol		ND ND		ND		
2,4-Dimethylphenal		ND		ND		
2,4-Dinitrophenol				ND		
2,4-Dinitrotoluene		ND ND		ND		
2,6-Dinitrotoluene		ND ND		ND		
2-Chloronaphthalene		ND ND		ND		
2-Chlorophenol		ND ND		ND		
z-cinoropnenoi		ND		ND		

	Maximum Values (include units)		Average Values (include units)			
Dallyteen and CAS Novelo	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted	Number of Storm Events	
Pollutant and CAS Number	20 minutes)		minutes)	Composite	Sampled	Sources of Pollutants
2-Nitrophenol		NO NO		ND		
3,3'-Dichlorobenzidine 4,6-Dinitro-2-		ND		ND		
methylphenol		NO		ND		
4-Bromophenyl-						
phenylether		ND 		ND		
4-Chloro-3-methylphenol		ND		ND		
phenylether		ND		ND		
4-Nitrophenol		NO		ND		
Acenaphthene		ND		ND		
Acenaphthylene		NO		ND		
Anthracene		NO		ND		
Azobenzene		NO		ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene	· · · · · · · · · · · · · · · · · · ·	ND		ND		
Benzo(k)fluoranthene		ND		ND		
Bis(2-		***		· · · · · · · · · · · · · · · · · · ·		
chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloraisopropyl) ether		ND		ND		
8is(2-ethylhexyl) phthalate		ND		ND		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		NO		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND	7	ND		
Fluorene		ND	7.1° H.L.	ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien e		ND		ND		
Hexachioroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND ND		
Isophorone		ND		ND ND		
N-Nitroso-di-n-						
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

	Maximum Values (include units)		Average Values (include units)			
			Grab Sample		$\neg$	
	Grab Sample		(Taken during	Time-	Number of	
	(Taken during first	Time-Weighted	first 20	Weighted	Storm Events	
Pollutant and CAS Number	20 minutes)	Composite	minutes)	Composite	Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND		
Phenol		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		ND		ND		
4,4¹-DDE		ND		ND		
4,4'-DDT		0.0120 ug/L		0.0120 ug/L		
Aldrin		ND		ND S		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND	-	
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC	<del>  </del>	ND		ND		
Dieldrin		ND ND		ND ND		
Endosulfan I		ND		ND ND		
Endosulfan II		ND		ND		
Endosulfan sulfate						
Endrin		ND		ND		
		ND		ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		ND		
gamma-BHC (lindane)		ND		NĐ		
gamma-Chlordane		ND		ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		Й		
Methoxychlor		ND		ND		
PCB-1016		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248		ND		ND		
PCB-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		ND		ND		
Gross Beta		ND		ND		
Radium 226		ND		ND		
Radium 228		ND		NĐ		
1,1,1-Trichloroethane		ND		ND		
1,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND ND		ND ND		
2-Chloroethylvinyl ether		ND		ND		

			Average Value	s (include		
	Maximum Value	es (include units)	units	)		
	Grab Sample	T: (4)-:	Grab Sample (Taken during first 20	Time-	Number of	
Pollutant and CAS Number	(Taken during first 20 minutes)	Time-Weighted Composite	minutes)	Weighted Composite	Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane	İ	ND		ND		
Bromoform		0.960ug/L		0.960ug/L		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ON		ND		
Chloroethane		ND		ND		
Chloroform		0.990 ug/L		0.990 ug/L		
Chloromethane		NO		ND		
Cis-1,3-Dichloraprapene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		NO		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND	-	
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

	-	3. Total rainfall during	4. Number of hours between beginning	5. Maximum flow rate	
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	during rain event	6. Total flow from rain
event	Event (in minutes)	inches)	measurable event.	(gallons/minute)	event (gallons)
2/19/2013	180	0.08	108	164.9	29676.4





# 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Val	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		ND		ND		
Chemical Oxygen Demand (COD)		35 mg/L		35 mg/L		4493- Marina
Total Suspended Solids (TSS)		107 mg/L		107 mg/L		4455 Wallia
Total Nitrogen		2.53 mg/L		2.53 mg/L		
Total Phosphorus		0.15 mg/L		0.15 mg/L		
рН	Minimum 7.42	Maximum 7.42	Minimum 7.42	Maximum 7.42	1	



	Maximum Value	s (include units)	Ave	erage Values (include units)		
Pollutant and	Grab Sample (Taken during first	Time-Weighted	Sample (Taken during first		Number of Storm Events	
CAS Number	20 minutes)	Composite	20 minutes)	Time-Weighted Composite	Sampled	Sources of Pollutants
				Not Applicable.		

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

details and requirements.	TIMPICTO ONE TODIC	com outique	-			
	Maximum Value	es (include units)	Average Values (in	Average Values (include units)		
	Grab Sample		Grab Sample	Time-		
	(Taken during first	Time-Weighted	(Taken during first	Weighted	Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	20 minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	300 MPN/ 100mL		300 MPN/ 100mL			
Residual Chlorine	ND		ND			
Cyanide, Total	ND.		ND			
Total Phenolics, High Level	ND		ND			
color		25		25		
Fluoride, IC		ND		ND		
Nitrate as N		1.73 mg/L		1.73 mg/L		
Nitrite as N		ND		ND ND		
Sulfate, IC		46.1 mg/L		46.1 mg/L		
Sulfite		ND		ND		
Surfactants (MBAS)		0.09 mg/L		0.09 mg/L		
Ammonia as N		ND		ND		
Organic Nitrogen as N		0.80 mg/L		0.80 mg/L		
Aluminum, Total, ICP		1.41 mg/L		1.41 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS	-	ND		ND		
Barium, Total, ICP		0.081 mg/L	· · · · · · · · · · · · · · · · · · ·	0.081 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.034 mg/L	-	0.034 mg/L		
Cadmium, Total, MS		ND		ND ND		
Chromium, Total, MS		0.002 mg/L		0.002 mg/L		
Cobalt, Total, ICP		ND		ND ND		
Copper, Total, ICP		0.011 mg/L	<del></del>	0.011 mg/L		
Iron, Total, ICP		2.86 mg/L		2.86 mg/L		
Lead, Total, MS		0.005 mg/L		0.005 mg/L		
Magnesium, Total, ICP	,	10.30 mg/L		10.30 mg/L		
Manganese, Total, ICP		0.227 mg/L	- <u>-</u> -	0.227 mg/L		
Mercury, Total, CVAA		ND		ND		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		0.004 mg/L	<u> </u>	0.004 mg/L		
Selenium, Total, MS		ND		ND ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		ND		ND		
Tin, Total, ICP		ND ND		ND		
1,2,4-Trichlorobenzene		ND ND		ND		
1,2-Dichlorobenzene		ND	<del></del>	ND		
1,3-Dichlorobenzene		ND ND		ND ND		
1,4-Dichlorobenzene		ND		ND I		
2,4,6-Trichlorophenol		ND		ND		
2,4-Dichlorophenol		ND		ND		
2,4-Dimethylphenol		ND		ND		
2,4-Dinitrophenol		ND		- ND		
2,4-Dinitrotoluene		ND		ND ND	J	
2,6-Dinitrotoluene	_	ND		ND ND	1	
					1	
2-Chloronaphthalene		ND		ND		

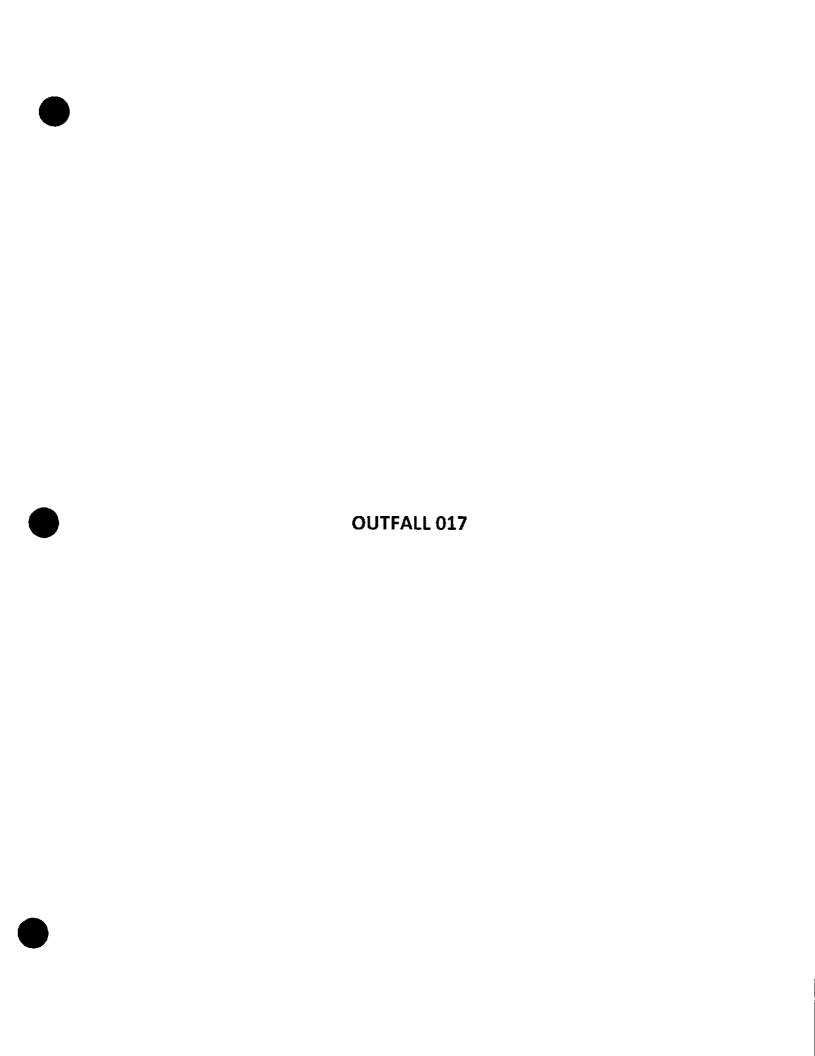
	Maximum Value	s (include units)	Average Values (in	clude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlorobenzidine		ND		ND ND		
4,6-Dinitro-2-						
methylphenol		ND		ND		
4-Bromophenyl-		ND	-	ND		
phenylether		NU		ND		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl- phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND		
Acenaphthylene		ND	1	ND		
Anthracene		ND		ND ND		
Azobenzene		ND		ND ND		
Benzidine		ND		ND	i	
Benzo(a)anthracene		ND		ND ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND ND		
Benzo(g,h,i)perylene		ND		ND ND		
Benzo(k)fluoranthene		ND ND		ND		;
Bis(2-		ND		NO		
chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl) ether		ND		ND		
Bis(2-ethylhexyl) phthalate		ND		ND		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND	**-	ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien		ND		ND		
e						
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone N-Nitroso-di-n-		ND		ND		
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

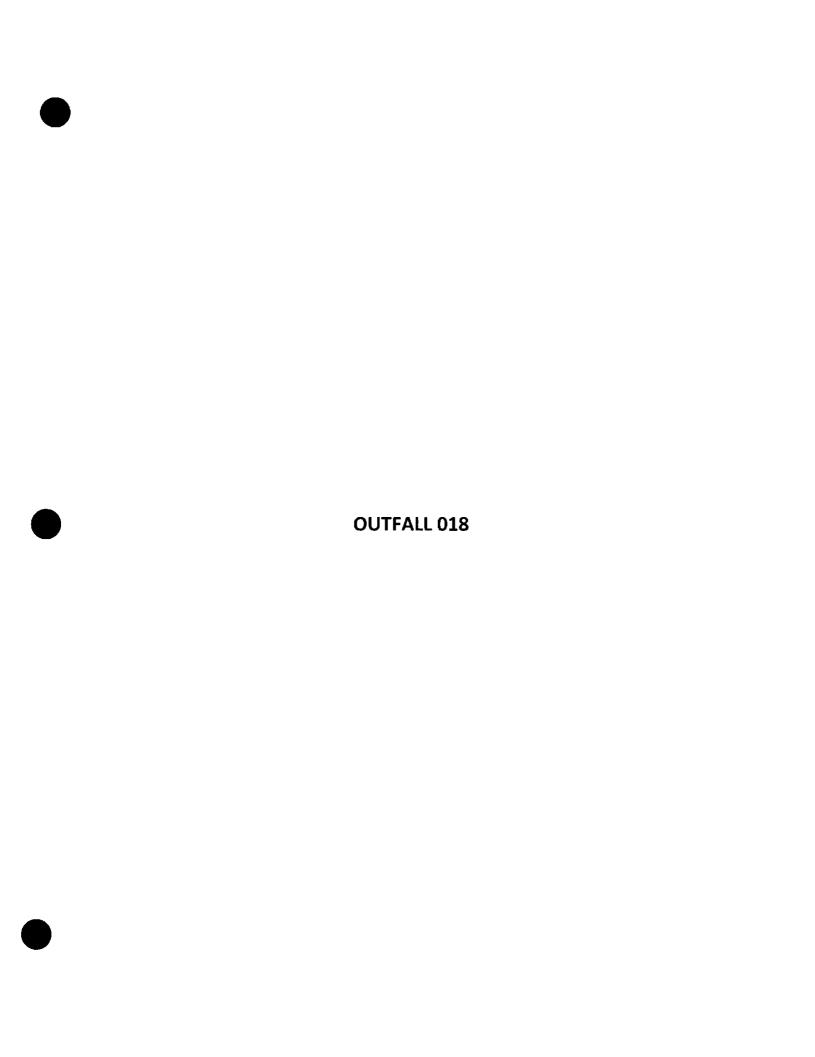
	Maximum Value	s (include units)	Average Values (in	clude units)		
	Grab Sample		Grab Sample	Time-		
	(Taken during first	Time-Weighted	(Taken during first		Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	20 minutes)	Composite	Events Sampled	Sources of Pollutants
Pentachlorophenol		ND	· · · · · · · · · · · · · · · · · · ·	ND		
Phenanthrene		ND		ND ND		
Phenol		ND	ļ	ND ND		
Pyrene		ND		ND		
4,4'-DDD		ND		ND.		
4,4'-DDE		ND		ND ND		
4,4'-DDT		ND		ND ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND ND		
beta-BHC						
Chlordane		ND		ND ND		
delta-BHC		ND ND	<del> </del>	ND ND		
Dieldrin		ND ND	<del> </del>	ND ND		
Endosulfan I		ND ND		ND ND		
		ND	-	ND ND		
Endosulfan II		ND ND		ND		
Endosulfan sulfate		ND		ND ***		
Endrin		ND		ND		
Endrin aldehyde		ND		ND -		
Endrin ketone		ND		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND ND		ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PCB-1242		ND ND		ND		
PCB-1248		ND ND		ND		
PCB-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		7.8 pCi/L		7.8 pCi/L		
Gross Beta		15.0 pCi/L		15.0 pCi/L		
Radium 226		0.8 pCi/L		0.8 pCi/L		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND	_	ND		
,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND	ł	
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

	Maximum Values (include units)		Average Values (in	clude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chloroform		ND		ND		
Chloromethane		ND		ND	1	
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3-Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		



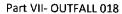
				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event ( <i>gallons or</i>
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
1/24/2012	180	0.03	149	2.9	513.2





## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		20.0 mg/L		20.0 mg/L		
Chemical Oxygen Demand (COD)		55.7 mg/L		55.7 mg/L	1	4911- Power
Total Suspended Solids (TSS)		22.8 mg/L		22.8 mg/L	_	Generation
Total Nitrogen		2.58 mg/L		2.58 mg/L		
Total Phosphorus		ND		ND		
ρΗ	Minimum 6.72	Maximum 6.72	Minimum 6.72	Maximum 6.72		



	Maximum Value	s (include units)	Aver	age Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
				Not Applicable.		

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall. Maximum Values (include units) Average Values (include units) Grab Sample Grab Sample (Taken during first Time-Weighted (Taken during first Time-Weighted Number of Storm 20 minutes) Pollutant and CAS Numbe Composite 20 minutes) Composite **Events Sampled** Sources of Pollutants Fecal Coliform, MPN >1600 MPN/100ml 1600 MPN/100mL Residual Chlorine ND Cyanide, Total ND ND 0.0250 mg/L 0.0250 mg/L Total Phenolics, High Level color 90 90 Fluoride, IC 0.38 mg/L 0.38 mg/L Nitrate as N 1.00 mg/L 1.00 mg/L Nitrite as N ND ND Sulfate, IC ND ND Sulfite ND ND Surfactants (MBAS) 0.173 mg/L 0.173 mg/L Ammonia as N 0.581 mg/L 0.581 mg/L Organic Nitrogen as N 2.58 mg/L 2.58 mg/L Aluminum, Total, ICP 0.389 mg/L 0.389 mg/L Antimony, Total, MS ND ND Arsenic, Total, M5 ND ND Barium, Total, ICP 0.0086 mg/L 0.0086 mg/L Beryllium, Total, MS 0.0405 mg/L 0.0405 mg/L Boron, Total, ICP 0.025 mg/L 0.026 mg/L Cadmium, Total, MS 0.000274 mg/L 0.000274 mg/L Chromium, Total, MS 0.0016 mg/L 0.0016 mg/L Cobaft, Total, ICP 0.0116 mg/L 0.0116 mg/L Copper, Total, ICP 0.0873 mg/L 0.0873 mg/L Iron, Total, ICP 1.27 mg/L 1.27 mg/L Lead, Total, MS 0.0279 mg/L 0.0279 mg/L Magnesium, Total, ICP 0.629 mg/L 0.629 mg/L Manganese, Total, ICP 0.0588 mg/L 0.0588 mg/L Mercury, Total, CVAA ND ND 0.000868 mg/L 0.000868 mg/L Molybdenum, Total, ICP 0.00160 mg/L Nickel, Total, MS 0.00160 mg/L Selenium, Total, MS ND ND 0.000085 mg/l Silver, Total, MS 0.000085 mg/t Thallium, Total, MS 0.000284 mg/L 0.000284 mg/l Tin, Total, ICP 0.000806 mg/L 0.000806 mg/L 1,2,4-Trichlorobenzene ND ND 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND ND 1,4-Dichlorobenzene ND ND 2,4,6-Trichlorophenol NĐ ND 2,4-Dichlorophenol ND ND 2,4-Dimethylphenol ND ND 2,4-Dinitrophenol ND ND 2,4-Dinitrotoluene ND NO 2,6-Dinitrotaluene ND ND 2-Chloronaphthalene ND ND 2-Chlorophenol ND ND

	Maximum Values (	include units)	Average Values	include units)		
		mode office,		melade units)		
	Grab Sample (Taken during first	Time-Meighted	Grab Sample (Taken during first	Time-Weighted	Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	20 minutes)	Composite	Events Sampled	Sources of Pollutants
2-Nitrophenal		ND		ND		
3,3'-Dichlorobenzidine		ND		ND		
4,6-Dinitro-2-		ALD:		ND		
methylphenol		ND		ND		
4-Bromophenyl- phenylether		ND		ND		
4-Chloro-3-methylphenol		NĐ		NĐ		
4-Chlorophenyl-		ND		ND		
phenylether 4-Nitrophenol						
4-Nitrophenol		ND		ND ND		
Acenaphthene		ND		ND ND		
Acenaphthylene Anthracene		ND	<del></del>	ND NO		
Anthracene		ND ND	<del> </del>	ND ND		
Benzidine		ND ND		ND ND		
Benzo(a)anthracene				ND ND		
Benzo(a)pyrene		ND ND		ND ND		
Benzo(b)fluoranthene				·		
Benzo(g,h,i)perylene		ND		ND ND		
Benzo(k)fluoranthene		ND ND		ND NO		
Bis(2-		ND		ΝĐ		
chloroethoxy)methane		NĐ		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl)						
ether		ND		ND		
Bis(2-ethylhexyl) phthalate		7.38 ug/L		7.38 ug/L		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND ND		
Dibenzo(a,h)anthracene		ND I		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND NO		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND	1	
lexachlorocyclopentadien	Ē.''.	ND		ND		
e Hexachloroethane						
		ND ND		ND		
Indeno(1,2,3-cd)pyrene Isophorone		ND ND		ND		
N-Nitroso-di-n-		ND		ND		
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

	Maximum Values	(include units)	Average Values	(include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Pentachlorophenol		ND	!	ND	- Citto Carripica	300/223 31 1 3/124///3
Phenanthrene		ND DN				
Phenol				ND		
		ND		ND ND		
Pyrene		ND		ND		
4,4'-DDD		ND		ND		
4,4'-DDE		ND		ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-8HC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND .		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		ND		ND		•
Endrin ketone		ND		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND	······································	ND		
Heptachlor		ND		ND		
Heptachior epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND ND		
PCB-1221		ND		ND ND		
PCB-1232		ND ND				
PCB-1242				ND		
		ND		ND		•
PCB-1248		ND		ND		
PCB-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene Cross Naha		ND		ND		
Gross Alpha		ND		ND		
Gross Beta		ND		ND		
Radium 226		ND		ND		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichlorgethane		ND		ND		
1,1-Dichlaroethene		ND	:	ND	]	
1,2-Dichlorobenzene		ND		ND	]	
1,2-Dichloroethane		NĐ		ND		
1,2-Dichloropropane		ND		ND	]	
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

	Maximum Values	(include units)	Average Values	(include units)		
Pollutant and CAS Number	Grab Sample {Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		DN		ND		
Carbon tetrachloride		Й		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chloroform		ND		ND		
Chioromethane		ND		ND		
Cis-1,3-Dichforopropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		NĎ		
Methylene chloride		ND		ND		
Tetrachioroethene		ND		ND		
Toluene		0.110 ug/L		0.110 ug/L		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
11/13/2012	180	0.15	320	42.1	7584.2

OUTFALL 019

## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		23.0 mg/L		23.0 mg/L		
Chemical Oxygen Demand (COD)		61.3 mg/L	1	61.3 mg/L	1	8731- Engineering, Chemical and Industrial
Total Suspended Solids (TSS)		34.4 mg/L		34.4 mg/L	_	Laboratories, 8734- Testing Laboratory
Total Nitrogen		2.01 mg/L		2.01 mg/L		
Total Phosphorus		ND		ND		
ρΗ	Minimum 7.14	Maximum 7.14	Minimum 7.14	Maximum 7.14		

	Maximum Values (include units)		Ave	rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
				Not Applicable.		

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

Maximum Values (include units)

Grab Sample

Grab Sample

Grab Sample

Grab Sample

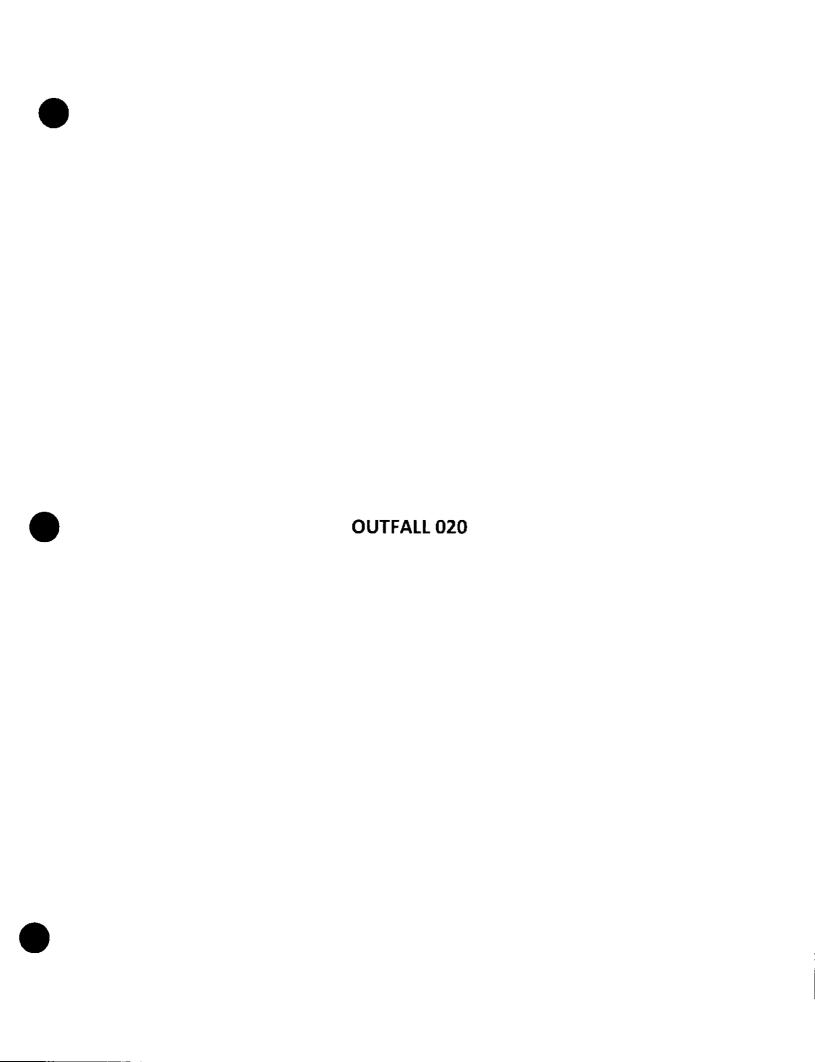
			1			
	Maximum Values	(include units)	Average Value	s (include units)		
			Grab Sample			
	Grab Sample		(Taken during			
	(Taken during first	_	first 20	Time-Weighted	Number of Storm	
Pollutant and CAS Number	20 minutes)	Composite	minutes)	Camposite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	500 MPN/100mL		500 MPN/100ml			
Residual Chlorine	ND		ND			
Cyanide, Total	ND		ND			
- 15	ND		ND		-	
Total Phenolics, High Level						
color		90		90		
Fiuoride, IC	ļ	0.38 mg/L		0.38 mg/L		
Nitrate as N		0.761 mg/L		0.761 mg/L		
Nitrite as N		ND "		ND		
Sulfate, IC		14.9 mg/L	ļ	14.9 mg/L		
Sulfite		NĐ	ļ	ND		
Surfactants (M8AS)		0.0930 mg/L		0.0930 mg/L		
Ammonia as N		0.354 mg/L		0.354 mg/L		
Organic Nitrogen as N		2.01 mg/L	ļ	2.01 mg/L		
Aluminum, Total, ICP		0.333 mg/L		0.333 mg/L		:
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.0300 mg/L		0.0300 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.0529 mg/L		0.0529 mg/L		
Cadmium, Total, MS		ND		ND		
Chromium, Total, MS		0.0016 mg/L		0.0016 mg/L		
Cobalt, Total, ICP		0.0016 mg/L		0.0016 mg/L		
Copper, Total, ICP		0.0178 mg/L		0.0178 mg/l.		
Iron, Total, ICP		0.491 mg/L		0.491 mg/L		
Lead, Total, MS		0.00510 mg/L		0.00510 mg/L		
Magnesium, Total, ICP		1.73 mg/L		1.73 mg/L		
Manganese, Total, ICP		0.0609 mg/L		0.0609 mg/L		
Mercury, Total, CVAA		0.00272 mg/L		0.00272 mg/L		
Molybdenum, Total, ICP		0.000967 mg/L		0.000967 mg/L		
Nickel, Total, MS		0.00170 mg/L		0.00170 mg/L		
Selenium, Total, MS		ND	İ	ND		
Silver, Total, MS		ND		ND		
Thallium, Total, MS		ND		ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,3-Dichlorobenzene		NĐ		ND		
1,4-Dichlorobenzene		ND		ND		
2,4,6-Trichlorophenol		ND		ND		
2,4-Dichlorophenol		ND		ND		
2,4-Dimethylphenal		ND		ND		
2,4-Dinitrophenol		ND		ND		
2,4-Dinitrotoluene		ND		ND		
2,6-Dinitrotoluene		ND		ND		
2-Chloronaphthalene		ND		ND ND		
2-Chlorophenol		ND		ND		

	Maximum Values	(include units)		(include units)		
Pollutant and CAS Number.	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
2-Nitrophenol	20 minutes,		mitatesy		Events sampled	Junites of Foliatants
		ND		ND		<del></del>
3,3'-Dichlorobenzidine 4,6-Dinitro-2-		ND		ND		
methylphenal		ND		ND		
4-Bromophenyl- phenylether		ND		ND		
		ND		ND I		
4-Chloro-3-methylphenol 4-Chlorophenyl-		ND		NĐ		
phenylether				145	İ	
4-Nitrophenol		ND		ND		
Acenaphthene	A	ND		ND		
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene	***************************************	ND		ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene		ND		ND		
Bis(2- chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND	ļ	
Bis(2-chloraisopropyl)		ND		ND	1	
ether		NU		ND	1	
Bis(2-ethylhexyl) phthalate		5.38 ug/L		5.38 ug/L		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND	<b>[</b>	
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND	Ī	
Hexachlorobutadiene		ND		ND		
fexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND	***	ND		
N-Nitraso-di-n-		NO.				
propylamine		ND ND		ND ND		
N-Nitrosodimethylamine						
		NU I	l	NO I	: 1	
N-Nitrosodiphenylamine Naphthalene		ND ND		ND ND		

	Maximum Value:	s (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND	·	
Phenanthrene		ND		ND		
Phenol		ND		ND		
Pyrene		ND		ND ND		
4,4'-DDD		ND		ND ND		
4,4'-DDE		ND		ND		
4,4'-DDT		ND ND		ND ND		
Aldrin		ND ND		ND		
alpha-BHC		ND		ND ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		DM		
Endosulfan sulfate		ND		NO		
Endrin		ND		ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		NĐ		
gamma-BHC (lindane)		ND		DM		
gamma-Chlordane		ND		ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PCB-1242		ND		ND ND		
PCB-1248		ND		ND		
PCB-1254		ND		ND ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		ND		ND ND		
Gross Beta		ND			i	
Radium 226		ND I		ND ND		
Radium 228						
1,1,1-Trichloroethane		ND ND		ND ND		
		ND ND		ND		
,1,2,2-Tetrachloroethane 1,1,2-Trichloroethane		×1.11.11.11.11.11.11.11.11.11.11.11.11.1				
1,1-Dichloroethane		ND ND		ND ND		
1,1-Dichloroethane		ND		ND ND		
		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene 1,4-Dichlorobenzene		ND ND		ND ND		
2-Chloroethylvinyl ether		ND		NÐ		

	Maximum Value	s (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein	, , , , , , , , , , , , , , , , , , ,	ND.	·	ND ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chloroform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		NĐ		
Dibromochloromethane		ND		NĐ		
Ethylbenzene		ND		NĐ		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichforopropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

	-			<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
11/13/2012	180	0.15	320	9.5	1702.6



## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

	Maximum Va	lues (include units)	Average Value	es (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		ND		ND		
Chemical Oxygen Demand (COD)		17.2 mg/L		17.2 mg/L	1	8731- Engineering, Chemical and Industrial Laboratories
Total Suspended Solids (TSS)		5.8 mg/L		5.8 mg/L	1	
Total Nitrogen		0.966 mg/L		0.966 mg/L		
Total Phosphorus		ND		ND		
рН	Minimum 7.28	Maximum 7.28	Minimum 7.28	Maximum 7.28		

	Maximum Value	s (include units)	Ave	rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
				Not Applicable.		

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

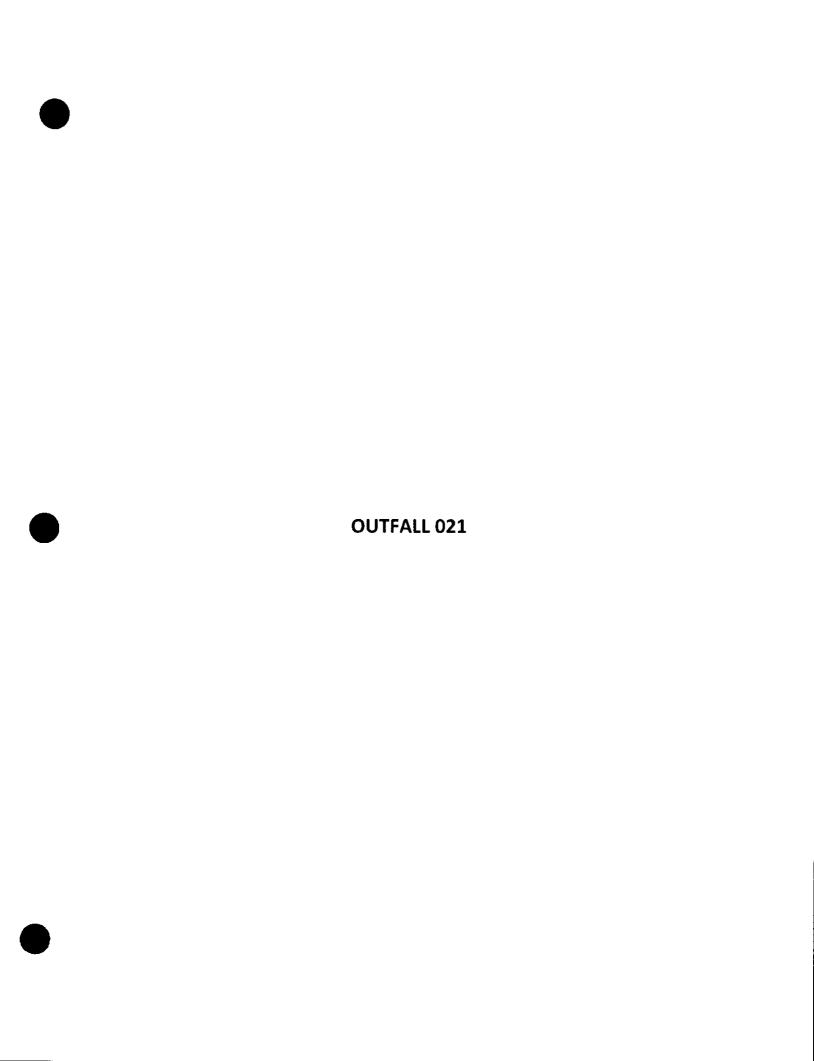
details and requirements.	Complete one tabl	e for each outrail.			,	
	Maximum Values (include units)		Average Values (include units)			
	Grab Sample		Grab Sample			
	(Taken during	Time-Weighted	(Taken during	Time-Weighted	Number of Storm	
Pollutant and CAS Number	first 20 minutes)	Composite	first 20 minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	17 MPN/100mL		17 MPN/100mL			
Residual Chlorine	ND		ND			
Cyanide, Total	ND		ND		1	
Total Phenolics, High Level	ND		ND			
color		30		30		
Fluoride, 1C		ND		ND	}	
Nitrate as N		0.966 mg/L		0.966 mg/L	]	
Nitrite as N		ND		ND		
Sulfate, IC		11.4 mg/l.		11.4 mg/L		
Sulfite		ND		ND	]	
Surfactants (MBAS)		0.0630 mg/L		0.0630 mg/L		
Ammonia as N		ND		ND		
Organic Nitrogen as N		ND		ND	]	
Aluminum, Total, ICP		0.151 mg/L		0.151 mg/L	]	
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.0437 mg/t.		0.0437 mg/L		
Beryllium, Total, MS		ND		ND	1	
Boron, Total, ICP		0.0215 mg/L		0.0215 mg/L		
Cadmium, Total, MS		ИĎ		ND	1	
Chromium, Total, MS		ND		NO	1	
Cobalt, Total, ICP		ND		ND	1	
Copper, Total, ICP		NĐ		ND	]	
Iron, Total, ICP		0.698 mg/L		0.698 mg/L	1	
Lead, Total, MS		ND		ND	1	
Magnesium, Total, ICP		2.55 mg/L		2.55 mg/L	1	
Manganese, Total, ICP		0.102 mg/L		0.102 mg/L	1	
Mercury, Total, CVAA		0.0000150 B mg/L		0.0000150 B mg/L		
Molybdenum, Total, ICP		ND		ND		
Nickel, Total, MS		ND		ND		
Selenium, Total, MS		NĐ		ND	1	
Silver, Total, MS		ND		ND		
Thailium, Total, MS		ND		ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2,4,6-Trichlorophenol		ND		ND	]	
2,4-Dichlorophenol		ND		ND	]	
2,4-Dimethylphenol		ND		ND	]	
2,4-Dinitrophenol		ND		ND		
2,4-Dinitrotoluene		ND		ND		
2,6-Dinitrotoluene		ND		ND	1	
2-Chloronaphthalene		ND		ND	1	
2-Chlorophenol		NĐ		ND		
<del></del>				·	, .	1

	Maximum Values (include units)		Average Values (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
2-Nitrophenol		ND	<u> </u>	ND		
3,3'-Dichlorobenzidine		ND		ND	1	
4,6-Dinitro-2-					1	
methylphenol		ND		ND		
4-Bromophenyl- phenylether		ND		ND		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl- phenylether		ND		ND		
4-Nitrophenol		ND		ND	j <b>i</b>	
Acenaphthene		ND		ND	]	
Acenaphthylene		ND		ND	]	
Anthracene		ND		ND	] <b>[</b>	
Azobenzene		ND		ND	]	
Benzidine		ND		ND	1	
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		NĎ		
Benzo(b)fluoranthene		ND		ND	1	
Benzo(g,h,i)perylene		ND		ND	1	
Benzo(k)fluoranthene		ND		ND	† <b> </b>	
Bis(2- chloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		NĎ		ND	1	
Bis(2-chloroisopropyl)		ND		ND		
ether		ND		NO	_	
Bis(2-ethylhexyl) phthalate		6.17 ug/L		6.17 ug/L		
Butylbenzylphthalate		ND		NĎ	<u> </u>	
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ON		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND	]	
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND	j	
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND	j <b>i</b>	
lexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND	]	
Indeno(1,2,3-cd)pyrene		ND		ND	ļ İ	
Isophorone		ND		ND	]	
N-Nitroso-di-n-		ND		ND		
propylamine N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND	1 <b>i</b>	
		ND	<u> </u>	ND	4 <b>i</b>	

	Maximum Values (include units)		Average Values (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND ND	-	
Phenol		ND		ND ND	-	
		ND			-	
Pyrene 4.4' DDD	Y			ND ND	-	
4,4'-DDD		ND		ND ND	-	
4,4'-DDE		ND		ND	-	
4,4'-DDT		ND		ND	-	
Aldrin		ND	ļ	ND		
alpha-BHC		NÐ		ND		
alpha-Chlordane		NÐ		ND		
beta-BHC	·	ŊĎ		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND	]	
Dieldrin		ND		ND	]	
Endosulfan I		ND		ND	1	
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND	1	
Endrin aldehyde		ND		ND ND		
Endrin ketone		ND		ND ND	1	
gamma-BHC (lindane)					-	
		ND ND		ND	<b>.</b>	
gamma-Chlordane		ND ND		ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND	ļ	
Methoxychlor		ND		ND		
PC8-1016		ND		ND		
PCB-1221		ND		ND	]	
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248		ND		ND	1	
PCB-1254		ND	1	NĐ	1	
PCB-1260		ND		ND		
Toxaphene		ND		ND	1	
Gross Alpha	*	ND		ND	1	
Gross Beta		ND		ND	1	
Radium 226		ND		ND	j <b>I</b>	
Radium 228		ND		ND	1	
1,1,1-Trichloroethane		ND		ND	1 1	
,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND	1 <b>I</b>	
1,1-Dichloroethane		ND		ND	1 <b>I</b>	
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND	1 I	
1,2-Dichloroethane		ND		ND	1	
1,2-Dichloropropane		ND		ND ND		
1,3-Dichlorobenzene					<b>!</b>	
1,4-Dichlorobenzene		ND ND		ND ND		
2-Chloroethylvinyl ether		ND		ND		

	Maximum Values (include units)		Average Values (include units)			
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample {Taken during first 20 minutes}	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND	1	
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		NĐ		ND		
Chlorobenzene		ND		ND	1	
Chloroethane		ND		ND	1	
Chloroform		ND		ND	]	
Chloromethane		ND		ND	]	
Cis-1,3-Dichloropropene		NÐ		ND		
Dibromochloromethane		NĐ		ND		
Ethylbenzene		ND		ND	1	
Methylene chloride		ND		ND	]	
Tetrachioroethene		ND		ND		
Taluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloraethene		ND		ND		
Trichlorofluoromethane		ND		ND	1	
Vinyl chloride		ND		ND	1	

				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
2/19/2013	180	0.08	108	8.1	1455.5



## 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		ND		ND		
Chemical Oxygen Demand (COD)		ND		ND	1	
Total Suspended Solids (TSS)		14.2 mg/L		14.2 mg/L	•	8731- Commercial
Total Nitrogen		0.28 mg/L		0.28 mg/L		Physical Research
Total Phosphorus		ND		ND		8734- Testing
рН	Minimum 6.35	Maximum 6.35	Minimum 6.35	Maximum 6.35		Laboratories

Part B- List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Values (include units)		Ave	rage Values (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
			1	Not Applicable.		

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall, Maximum Values (include units) Average Values (include units) Number of Grab Sample Grab Sample Time-Storm (Taken during first Weighted (Taken during first Weighted Events 20 minutes) Composite 20 minutes) Pollutant and CAS Numbe Composite Sampled Sources of Pollutants Fecal Coliform, MPN 70 MPN/100mL 70 MPN/100mL Residual Chlorine ND Cyanide, Total ΝĐ ΝĐ ND NO Total Phenolics, High Level color 50 50 Fluoride, IC ND ND Nitrate as N 0.806 mg/L 0.806 mg/L Nitrite as N ΝĐ ND Sulfate, IC ND ND Sulfite NO ND Surfactants (MBAS) ND ND Ammonia as N ND ND Organic Nitrogen as N ND ΝĐ Aluminum, Total, ICP 0.127 mg/L 0.127 mg/L Antimony, Total, MS ND NĐ Arsenic, Total, MS ND ND Barium, Total, ICP 0.0389 mg/L 0.0389 mg/L Beryllium, Total, MS ND ND Boron, Total, ICP 0.0290 mg/L 0.0290 mg/L Cadmium, Total, MS ΝĎ  $\mathsf{N}\mathsf{D}$ 0.003 mg/L Chromium, Total, MS 0.003 mg/L 0.00200 mg/l Cobalt, Total, ICP 0.00200 mg/L Copper, Total, ICP ND ND Iron, Total, ICP 0.978 mg/L 0.978 mg/L Lead, Total, MS ND ND 2.77 mg/L 2.77 mg/L Magnesium, Total, ICP 0.0737 mg/L 0.0737 mg/L Manganese, Total, ICP Mercury, Total, CVAA ND ND Molybdenum, Total, ICP ND ND Nickel, Total, MS ND ND Selenium, Total, MS ND ND Silver, Total, MS ND ND Thallium, Total, MS ND ND Tin, Total, ICP ND ND 1,2,4-Trichlorobenzene ND ND 1,2-Dichlorobenzene ND ND 1,3-Dichlorobenzene ND ND 1,4-Dichlorobenzene ND NO 2,4,6-Trichlorophenol ND ND 2,4-Dichlorophenol ND ND 2,4-Dimethylphenol ND ND 2,4-Dinitrophenol ND ND 2,4-Dinitrotoluene ND ND 2,6-Dinitrotoluene ND ND 2-Chloronaphthalene ND ND 2-Chlorophenol ND ND

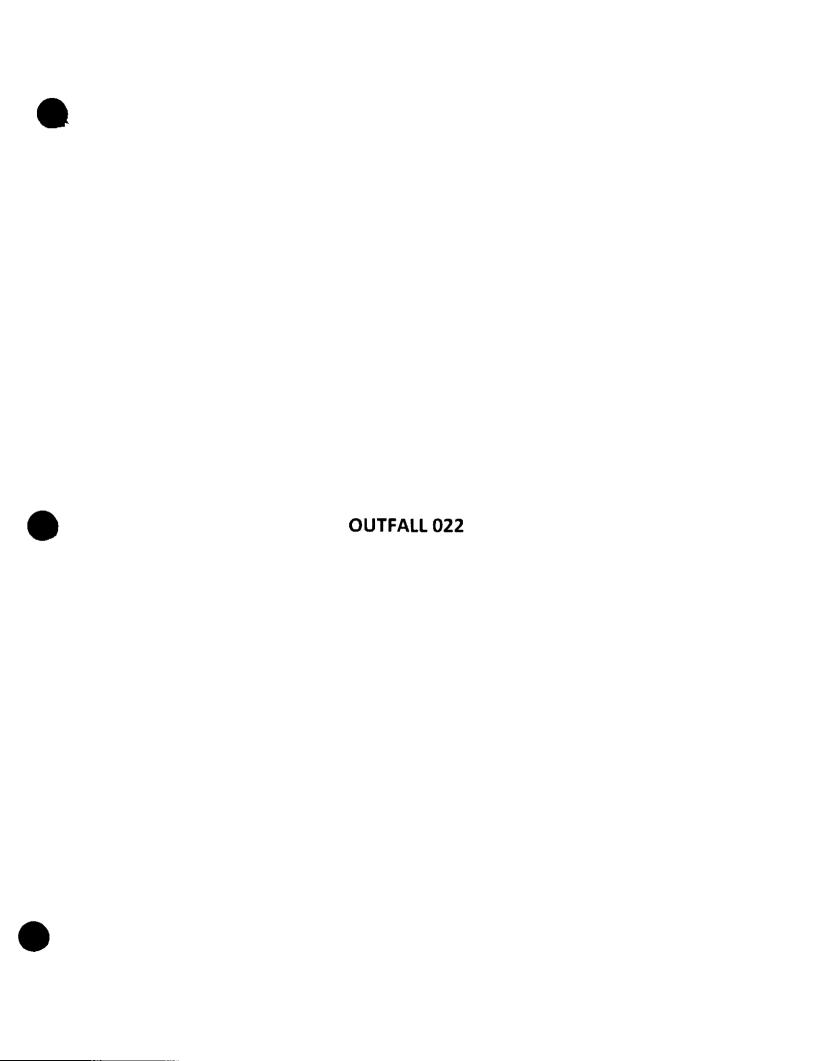
	<del>,                                    </del>					
	Maximum Values	(include units)	Average Values (ir	clude units)		
					Number of	
	Grab Sample	Time-	Grab Sample	Time-	Storm	<b>.</b>
	(Taken during first		(Taken during first	Weighted	Events	
Pollutant and CAS Number	20 minutes)	Composite	20 minutes)	Composite	Sampled	Sources of Pollutants
2-Nitrophenol		ND		ND		
3,3'-Dichlorobenzidine		ND ND		ND		
4,6-Dinitro-2-		ND		ND		
methylphenol 4-Bromophenyl-		<del></del>				
phenylether		ND		ND		
4-Chloro-3-methylphenol 4-Chlorophenyl-		ND		ND		
phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND		
Acenaphthylene		ND		ND		
Anthracene		ND		ND		
Azobenzene		D		ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene		ND		NĎ		
Benzo(k)fluoranthene		ND		ND		
Bis(2-		ND		ND		
chloroethoxy)methane				ND		
Bis(2-chloroethyl) ether Bis(2-chloroisopropyl)		ND		ND		
ether		ND		ND		
Bis(2-ethylhexyl)						
phthalate		4.06 ug/L		4.06 ug/L		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		NĐ		
Dimethyl phthalate		ND		ND		
Fluoranthene		ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND		ND		
Hexachlorobutadiene		ND		ND		
Hexachlorocyclopentadien e		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n-						
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

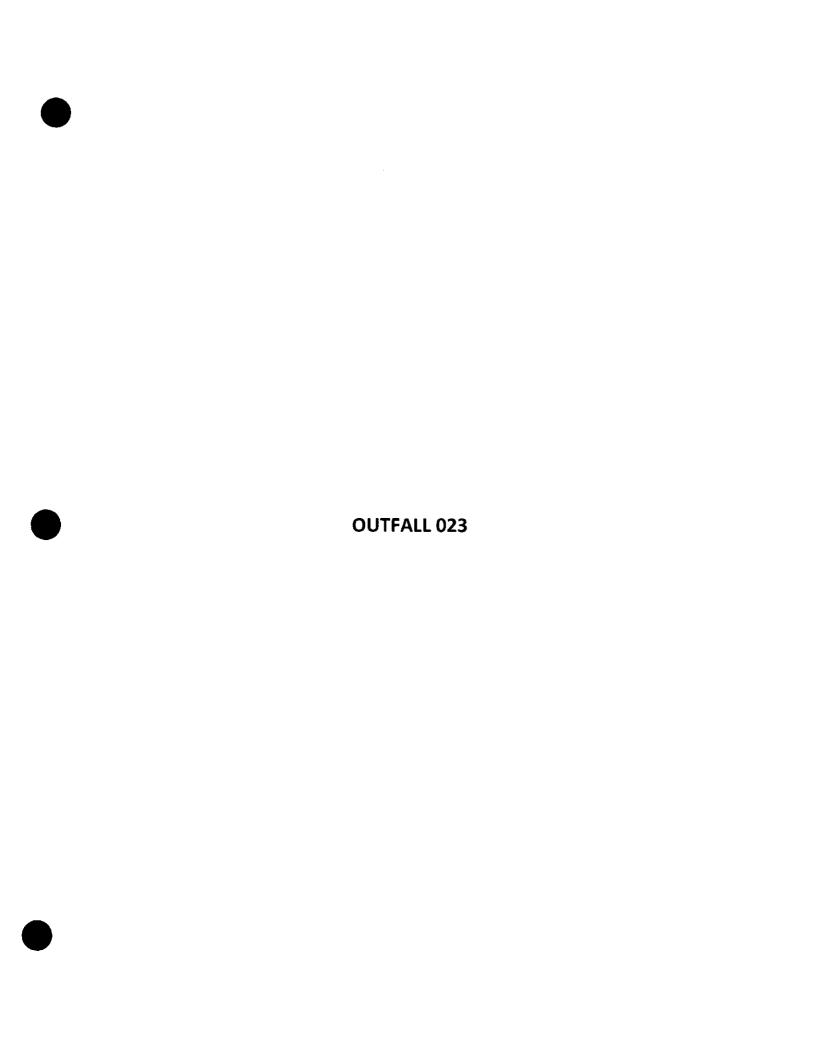
	Maximum Values	(include units)	Average Values (ir	clude units)		
					Number of	
	Grab Sample	Time-	Grab Sample	Time-	Storm	
	(Taken during first	_	(Taken during first	-	Events	
Pollutant and CAS Number	20 minutes)	Composite	20 minutes)	Composite	Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND		
Phenal		ND		ND		
Pyrene		ND		ND		
4,4'-DDD		ND		ND		
4,4'-DDE		ND		ND		
4,4'-DDT		ND		ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		NĎ		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND	Ì	ND		
Heptachlor		ND		ND		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248		ND		ND		
PCB-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		ND		ND		
Gross Beta		ND		ND		
Radium 226		ND		ND		
Radium 228		ND		ND		
1,1,1-Trichloroethane		ND		ND		
		NE		N.D.		
,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ИD		NĐ		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		NO		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

	Maximum Values	(include units)	Average Values (ir	nclude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND	1	
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		NĐ		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND	1	
Chlorobenzene		ND		NO		
Chloroethane		ND		ND	1	
Chlaroform		ND		ND	]	
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND	1	
Ethylbenzene		ND	****	ND	]	
Methylene chloride		ND		ND	1	
Tetrachloroethene		ND		ND	1	
Toluene		ND		NĎ	1	
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND	1	
Trichlorofluoromethane		ND		ND	1	
Vinyl chloride		ND		ND	1	

Part D- Provide data for the storm event(s) which resulted in the maximum values for the time weighted composite sample.

				5. Maximum flow rate	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
1. Date of Storm	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
4/5/2013	180	0.28	105	31.6	5679.6





### 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)	1	ND		ND		
Chemical Oxygen Demand (COD)		38 mg/L		38 mg/L	1	4955- Hazardouse
Total Suspended Solids (TSS)		92.0 mg/L		92.0 mg/L	1	Waste Storage
Total Nitrogen		2.23 mg/L		2.23 mg/L		
Total Phosphorus		0.38 mg/L	1	0.38 mg/L		
рН	Minimum 6.42	Maximum 6.42	Minimum 6.42	Maximum 6.42		



Part B- List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

Maximum Values		s (include units)	Aver	age Values (include units)		
ollutant and AS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
AS Number	20 minutes)	Composite	20	Time-Weighted Composite	Events Sampled	Sources of P

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall. Maximum Values (include units) Average Values (include units) Grab Sample (Taken Grab Sample (Taker during first 20 Time-Weighted during first 20 Weighted Number of Storm Pollutant and CAS Number minutes) Composite minutes) Composite **Events Sampled** Sources of Pollutants Fecal Coliform, MPN >1600 MPN/100mL >1600 MPN/100mL Residual Chlorine <0.1 mg/L <0.1 mg/L Cyanide, Total ND ND ND ND Total Phenolics, High Level cotor 150 150 Fluoride, IC ND ND Nitrate as N ND ND Nitrite as N ND ND Sulfate, IC 6.90 mg/L 6.90 mg/L Sulfite ND ND 92 mg/L Surfactants (MBAS) 92 mg/L Ammonia as N 0.29 mg/L 0.29 mg/L 1.94 mg/L 1.94 mg/L Organic Nitrogen as N Aluminum, Total, ICP 4.95 mg/L 4.95 mg/L Antimony, Total, MS ND ND Arsenic, Total, MS ND ND Barium, Total, ICP 0.043 mg/L 0.043 mg/L Beryllium, Total, MS ND ND 0.020 mg/L 0.020 mg/L Boron, Total, ICP Cadmium, Total, M\$ ND ND Chromium, Total, MS 0.010 mg/L 0.010 mg/L Cobalt, Total, ICP 0.007 mg/L 0.007 mg/L Copper, Total, ICP  $0.023 \, mg/L$ 0.023 mg/L Iron, Total, ICP 0.599 mg/L 0.599 mg/L Lead, Total, M\$ 0.024 mg/L 0.024 mg/L Magnesium, Total, ICP 1.57 mg/L 1.57 mg/L Manganese, Total, ICP 0.151 mg/L 0.151 mg/L Mercury, Total, CVAA 0.0003 mg/L 0.0003 mg/L Molybdenum, Total, ICP Nickel, Total, MS 0.006 mg/L 0.006 mg/L Selenium, Total, MS Silver, Total, MS ND ND Thallium, Total, MS ND ND Tin, Total, ICP ND ND 1,2,4-Trichlorobenzene ND ND 1,2-Dichlorobenzene ND ND 1,3-Dichlorobenzene ND ND 1,4-Dichlorobenzene ND ND 2,4,6-Trichlorophenol ND NO 2,4-Dichlorophenol ND ND 2,4-Dimethylphenol ND ND 2,4-Dinitrophenol ND ND 2,4-Dinitrotoluene ND ND 2,6-Dinitrotoluene ND ND

ND

ND

ND

ND

2-Chloronaphthalene

2-Chlorophenol

	Maximum Values	(înclude units)	Average Values (in	clude units)	]	
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
2-Nitrophenal		ND		ND		
3,3'-Dichlorobenzidine		ND		ND	1	
4,6-Dinitra-2-		410			1	
methylphenol		ND		ND		
4-Bromophenyl-		ND		ND	1	
phenylether		110		ND	] [	
4-Chloro-3-methylphenol		ND		ND	1	
4-Chlorophenyl-						
phenylether		ND		ND		
4-Nitrophenol		ND		ND		
Acenaphthene	h	ND		ND	i	
Acenaphthylene		ND		ND	1 I	
Anthracene		ND			<del> </del>	
Arobenzene		ND ND		ND ND	-	
Benzidine				ND		
		ND ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene Bis(2-		ND		ND		
chloroethoxy)methane		ND		ND		
8is(2-chloroethyl) ether		ND		ND	1	
Bis(2-chioroisopropyl)		ND		ND		
ether Bis(2-ethylhexyl)						
phthalate		ND		ND		
Butylbenzylphthalate		ND		MD		
Chyrsene				ND		
Di-n-butylphthalate		ND NO		ND ND		
		ND		ND		
Di-n-octyl phthalate Dibenzo(a,h)anthracene		ND		ND		
		ND		ND		
Diethylphthalate Dimethyl phthalate		ND ND		NĐ	<b> </b>	
		ND ND		ND		
Fluoranthene		ND		ND	]	
Fluorene		ND ND		ND		
Hexachlorobenzene		ND ND		ND		
Hexachlorobutadiene lexachlorocycloperitadien		ND		ND		
e .		ND		ND		
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND		
Isophorone		ND		ND		
N-Nitroso-di-n-						
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND .		

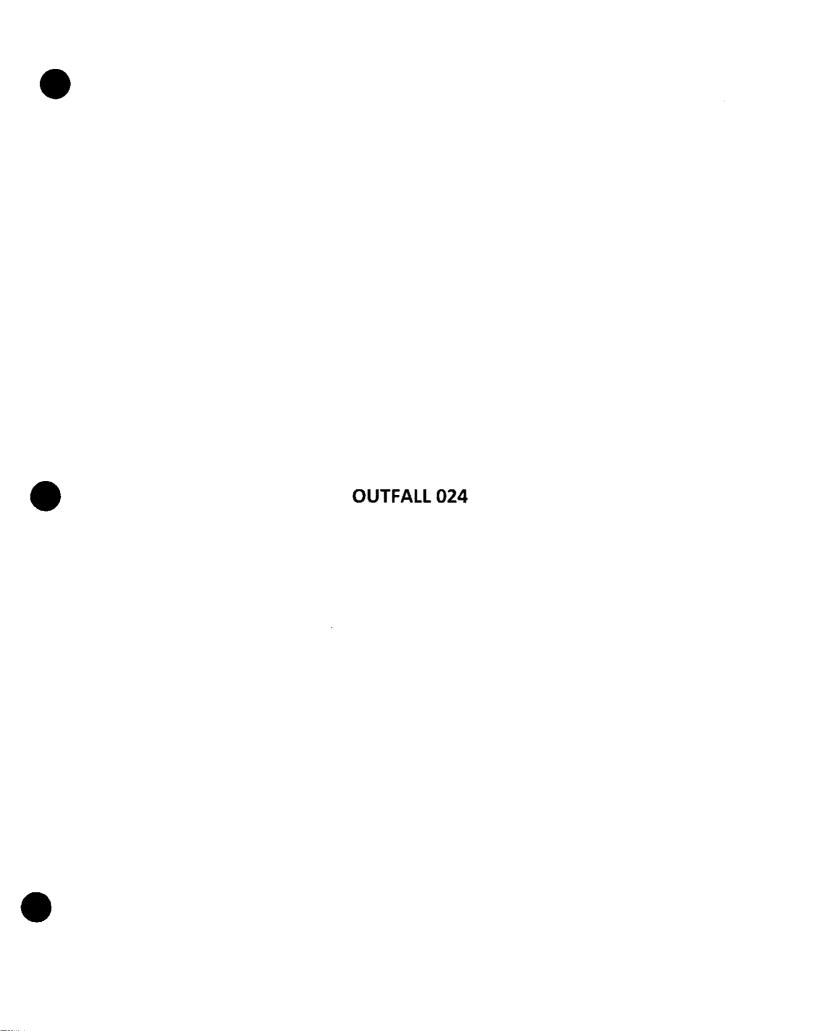
	Maximum Values	(include units)	Average Values (in	clude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND		
Phenanthrene		ND		ND	1	
Phenol		ND		ND		
Pyrene		ND		ND	1	
4,4'-DDD		ND		ND		
4,4'-DDE		ND				
4,4'-DDT				ND ND		
Aldrin		ND		ND ND		
		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ОN		
Endosulfan sulfate		ND		ND	1	
Endrin		ND		ND	1 1	
Endrin aldehyde		ND		ND	1	
Endrin ketone		ND		ND	1	
gamma-8HC (lindane)		ND		ND	1	
gamma-Chlordane		ND		ND	1	
Heptachlor		ND		ND		
Heptachlor epoxide		ND			-	
Methoxychlor				ND		
PCB-1016		ND		ND		
		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PCB-1242		ND		ND		
PCB-1248		ND		ND		
PCB-1254		ND		ДN		
PCB-1260		ND		ND		
Toxaphene		ND		ND		
Gross Alpha		3.6 pCi/L		3.6 pCi/L		
Gross Beta		4.1 pCi/L		4.1 pCi/L		
Radium 226		ND		NĐ		
Radium 228		0.7 pCi/Ł		0.7 pCi/L		
1,1,1-Trichloroethane		ND		ND		
.,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane		ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichlaraethene		ND		ND		
1,2-Dichiorobenzene		ND	***************************************	ND		
1,2-Dichloroethane		ND		ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND ND		ND		
2-Chloroethylvinyl ether		ND		ND		

	l					
	Maximum Values	(include units)	Average Values (in	clude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND	1	
Benzene		ND		ND		
Bromodichloromethane		ND		ND	1	
Bromoform		ND		NĎ	1	
Bromomethane		ND		ND	1	
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chloroform		ND		ND	1	
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND	1	
Tetrachloroethene		ND		ND		
Toluene		ND ND		ND	]	
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND	]	
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		



### Part D- Provide data for the storm event(s) which resulted in the maximum values for the time weighted composite sample.

Date of Storm event	Duration of Storm     Event (in minutes)		Number of hours between beginning of storm measured and end of previous measurable event.	5. Maximum flow rate during rain event (gallons/minute or specify units)	6. Total flow from rain event (gallons or specify units)
11/29/2011	180	0.39	150	12.5	2245.1



#### 2F-VII. Outfall 1 Discharge Information (Continued from page 3 of Form 2F)

Part A- You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

	Maximum Va	lues (include units)	Average Value	s (include units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Oil and Grease	ND		ND			
Biological Oxygen Demand (BOD5)		ND		ND		
Chemical Oxygen Demand (COD)		35 mg/L		35 mg/L	1	
Total Suspended Solids (TSS)		14.2 mg/L		14.2 mg/L	•	
Total Nitrogen		1.48 mg/L		1.48 mg/L		4961- System Heat
Total Phosphorus		ND		ND		Generation/Air
рН	Minimum 7.21	Maximum 7.21	Minimum 7.21	Maximum 7.21		Conditioning systems



Part B- List each pollutant that is limited in an effluent guideline which the facility is subject to or any pollutant listed in the facility's NPDES permit for its process wastewater (if the facility is operating under an existing NPDES permit). Complete one table for each outfall. See the instructions for additional details and requirements.

	Maximum Values (include units)		Ave	rage Values (include units)		
Pollutant and CAS Number	Grab Sample {Taken during first 20 minutes)	Time-Weighted Composite	Sample (Taken during first 20	Time-Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
	, , , , , , , , , , , , , , , , , , ,	<u>'</u>		Not Applicable.		

Part C- List each pollutant shown in Table 2F-2, 2F-3, and 2F-4 that you know or have reason to believe it is present. See the instructions for additional details and requirements. Complete one table for each outfall.

details and requirements.	Complete one table to	r each outfall.	I			<del></del>
	Maximum Values	(include units)	Average Values (in	clude units)		
	Grah Samala (Talian		Grah Samala /Talea	Time-		i
	Grab Sample (Taken during first 20	Time-Weighted	Grab Sample (Taken during first 20	Weighted	Number of Storm	ĺ
Pollutant and CAS Number		Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Fecal Coliform, MPN	>1600 MPN/100mL	<u> </u>	>1600 MPN/100mL		Cronto sumpres	Sources of Foliatories
Residual Chlorine	ND ND		ND			i
Cyanide, Total	ND		ND			
						ĺ
Total Phenolics, High Level	ND		ND			
color		90		90		ĺ
Fluoride, IC		0.38 mg/L		0.38 mg/L		
Nitrate as N		0.88 mg/L		0.88 mg/L		
Nitrite as N		ND		ND		
Sulfate, IC		8.88 mg/L		8.88 mg/L		1
Sulfite		ND		ND		
Surfactants (MBAS)		0.26 LAS		0.26 LAS		
Ammonia as N		ND		ND		
Organic Nitrogen as N		0.60mg/L		0.60mg/L		
Aluminum, Total, ICP		0.463 mg/L		0.463 mg/L		
Antimony, Total, MS		ND		ND		
Arsenic, Total, MS		ND		ND		
Barium, Total, ICP		0.006 mg/L		0.006 mg/L		
Beryllium, Total, MS		ND		ND		
Boron, Total, ICP		0.026 mg/L		0.026 mg/L		
Cadmium, Total, MS		ND ND		ND		
Chromium, Total, MS		0.003 mg/L		0.003 mg/L		
Cobalt, Total, ICP		ND ND		ND ND		
Copper, Total, ICP		0.014 mg/L		0.014 mg/L		
Iron, Total, ICP		0.683 mg/L		0.683 mg/L		
Lead, Total, MS		ND		ND		
Magnesium, Total, ICP		0.369 mg/L		0.369 mg/L		
Manganese, Total, ICP		0.012 mg/L		0.012 mg/L		
Mercury, Total, CVAA		ND ND		ND		
Molybdenum, Total, ICP		ND		ND ND		
Nickel, Total, MS		ND		ND		
Selenium, Total, MS		ND		ND		İ
Silver, Total, MS		ND		ND		
Thallium, Total, MS		ND		ND		
Tin, Total, ICP		ND		ND		
1,2,4-Trichlorobenzene		ND		ND		
1,2-Dichlorobenzene		ND		ND ND	İ	
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND ND		
2,4,6-Trichlorophenol		ND		ND		
2,4-Dichlorophenol		ND				
2,4-Dimethylphenol		ND		ND ND		
2,4-Dinitrophenol		ND ND				
2,4-Dinitrotoluene				ND		
		ND ND		ND		
2,6-Dinitrotoluene		ND		ND ND		
2-Chloronaphthalene		ND		ND		
2-Chlorophenol		ND		ND		J

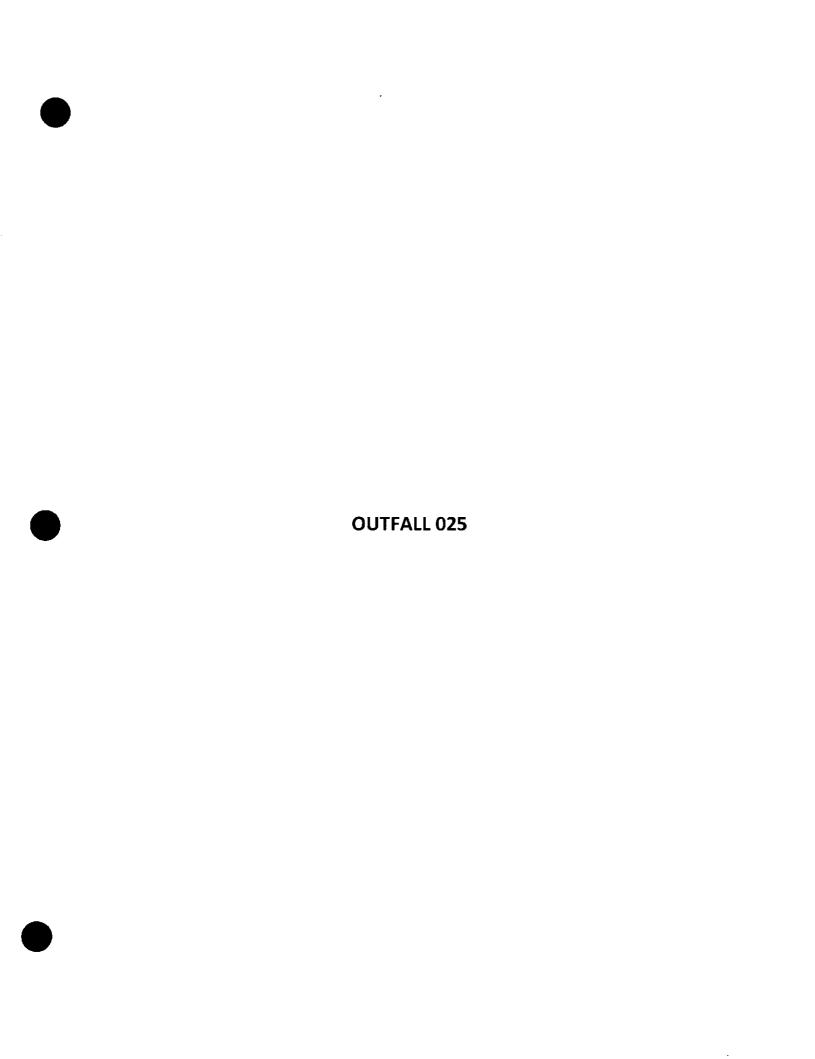
	Maximum Values	(include units)	Average Values (inc	lude units)		
	Grab Sample (Taken		Grab Sample (Taken	Time-		
	during first 20	Time-Weighted	during first 20	Weighted	Number of Storm	•
Pollutant and CAS Number	_	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
2-Nitrophenol	·	ND ND		ND	27011232111313	500,005 011 011000110
3,3'-Dichlorobenzidine		ND		ND		
4,6-Dinitro-2-						
methylphenol		ND		ND		
4-Bromophenyl- phenylether		ND		ND		
4-Chloro-3-methylphenol		ND		ND		
4-Chlorophenyl-		ND		ND		
phenylether						
4-Nitrophenol		ND		ND		
Acenaphthene		ND		ND		
Acenaphthylene		NĐ		ND		
Anthracene		ND		ND		
Azobenzene		ND		ND		
Benzidine		ND		ND		
Benzo(a)anthracene		ND		ND		
Benzo(a)pyrene		ND		ND		
Benzo(b)fluoranthene		ND		ND		
Benzo(g,h,i)perylene		ND		ND		
Benzo(k)fluoranthene Bis(2-		ND		ND		
thloroethoxy)methane		ND		ND		
Bis(2-chloroethyl) ether		ND		ND		
Bis(2-chloroisopropyl) ether		ND		ND		
Bis(2-ethylhexyl) phthalate		7.92 ug/L		7.92 ug/L		
Butylbenzylphthalate		ND		ND		
Chyrsene		ND		ND		
Di-n-butylphthalate		ND		ND		
Di-n-octyl phthalate		ND		ND		
Dibenzo(a,h)anthracene		ND		ND		
Diethylphthalate		ND		ND		
Dimethyl phthalate		ND		ND ND		
Fluoranthene	-	ND		ND		
Fluorene		ND		ND		
Hexachlorobenzene		ND	*	ND		
Hexachlorobutadiene		ND		ND	ļ	
lexachlorocyclopentadien		ND		ND		
e					]	
Hexachloroethane		ND		ND		
Indeno(1,2,3-cd)pyrene		ND		ND	]	
Isophorone N-Nitroso-di-n-		ND		ND	]	
propylamine		ND		ND		
N-Nitrosodimethylamine		ND		ND		
N-Nitrosodiphenylamine		ND		ND		
Naphthalene		ND		ND		
Nitrobenzene		ND		ND		

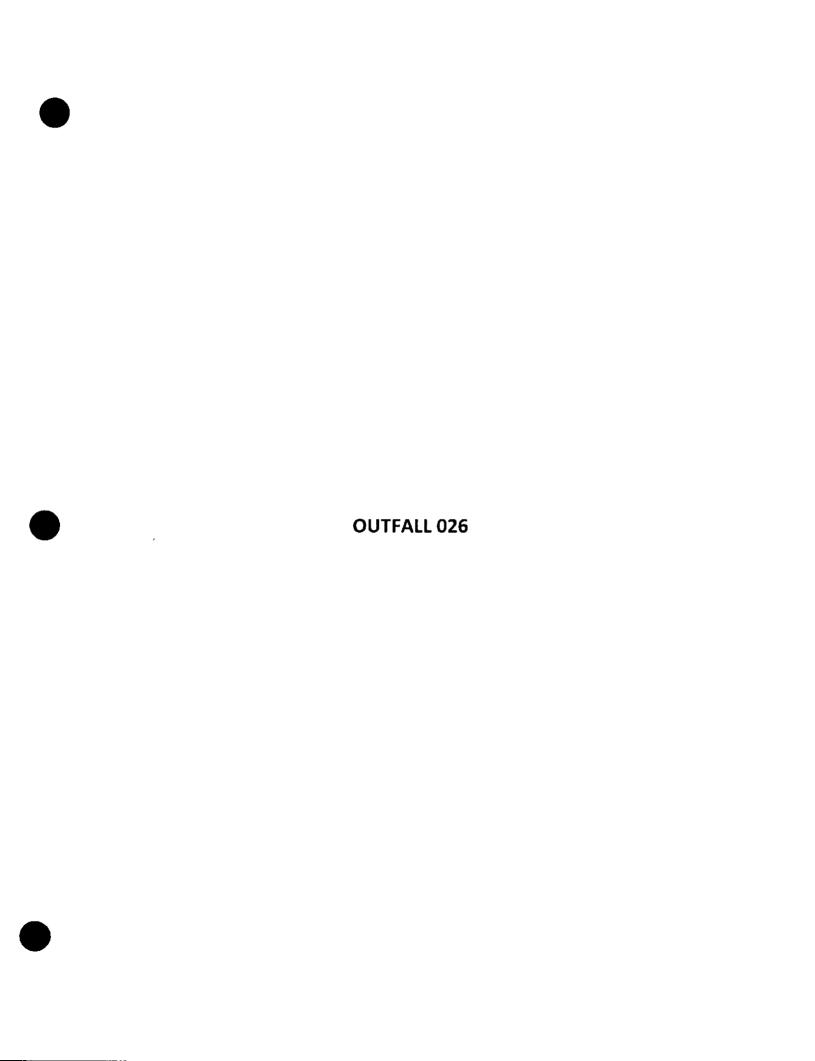
	Maximum Values	(include units)	Average Values (inc	lude units)		
;	Grab Sample (Taken during first 20	Time-Weighted	Grab Sample (Taken during first 20	Time- Weighted	Number of Storm	
Pollutant and CAS Number	_	Composite	minutes)	Composite	Events Sampled	Sources of Pollutants
Pentachlorophenol		ND		ND	Evento sumpreu	Sources of Foliatarits
Phenanthrene						
Phenol		ND	<u></u>	ND		
		ND		ND		
Pyrene	·	ND NO		ND		
4,4'-DDD 4,4'-DDE		ND		ND ND		
		ND		ND ND		
4,4'-DDT		ND		ND ND		
Aldrin		ND		ND		
alpha-BHC		ND		ND		
alpha-Chlordane		ND		ND		
beta-BHC		ND		ND		
Chlordane		ND		ND		
delta-BHC		ND		ND		
Dieldrin		ND		ND		
Endosulfan I		ND		ND		
Endosulfan II		ND		ND		
Endosulfan sulfate		ND		ND		
Endrin		ND		ND		
Endrin aldehyde		ND		ND		
Endrin ketone		ND		ND		
gamma-BHC (lindane)		ND		ND		
gamma-Chlordane		ND		ND		
Heptachlor		ND		NĐ		
Heptachlor epoxide		ND		ND		
Methoxychlor		ND		ND		
PCB-1016		ND		ND		
PCB-1221		ND		ND		
PCB-1232		ND		ND		
PC8-1242		ND		ND		
PCB-1248		ND		ND		
PCB-1254		ND		ND		
PCB-1260		ND		ND		
Toxaphene		ND		NÐ		
Gross Alpha		ND		ND		
Gross Beta		2.1 pCi/L		2.1 pCi/L		
Radium 226		0.1 pCi/L		0.1 pCi/L		
Radium 228		ND		ND ND		
1,1,1-Trichloroethane		ND		ND		
,1,2,2-Tetrachloroethane		ND		ND		
1,1,2-Trichloroethane	*······	ND		ND		
1,1-Dichloroethane		ND		ND		
1,1-Dichloroethene		ND		ND		
1,2-Dichlorobenzene		ND		ND		
1,2-Dichloroethane		ND	••••	ND		
1,2-Dichloropropane		ND		ND		
1,3-Dichlorobenzene		ND		ND		
1,4-Dichlorobenzene		ND		ND		
2-Chloroethylvinyl ether		ND		ND		

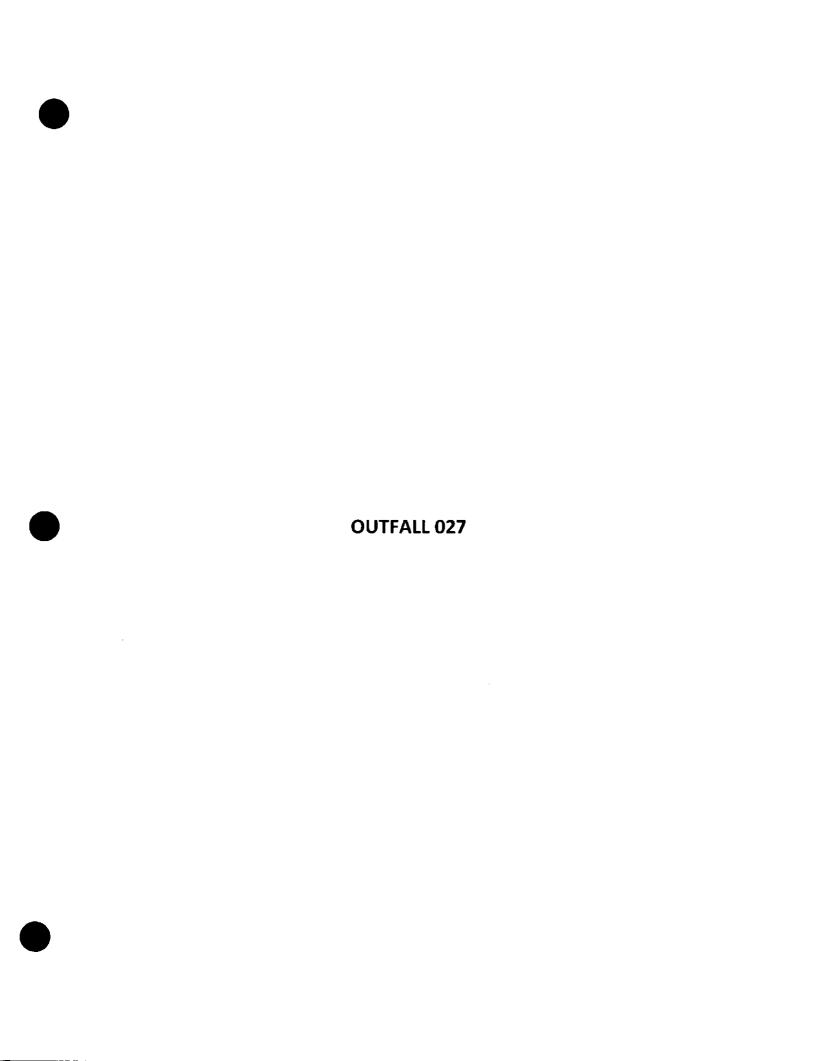
	Maximum Values	(include units)	Average Values (inc	lude units)		
Pollutant and CAS Number	Grab Sample (Taken during first 20 minutes)	Time-Weighted Composite	Grab Sample (Taken during first 20 minutes)	Time- Weighted Composite	Number of Storm Events Sampled	Sources of Pollutants
Acrolein		ND		ND		
Acrylonitrile		ND		ND		
Benzene		ND		ND		
Bromodichloromethane		ND		ND		
Bromoform		ND		ND		
Bromomethane		ND		ND		
Carbon tetrachloride		ND		ND		
Chlorobenzene		ND		ND		
Chloroethane		ND		ND		
Chloroform		ND		ND		
Chloromethane		ND		ND		
Cis-1,3-Dichloropropene		ND		ND		
Dibromochloromethane		ND		ND		
Ethylbenzene		ND		ND		
Methylene chloride		ND		ND		
Tetrachloroethene		ND		ND		
Toluene		ND		ND		
Trans-1,2-Dichloroethene		ND		ND		
Trans-1,3- Dichloropropene		ND		ND		
Trichloroethene		ND		ND		
Trichlorofluoromethane		ND		ND		
Vinyl chloride		ND		ND		

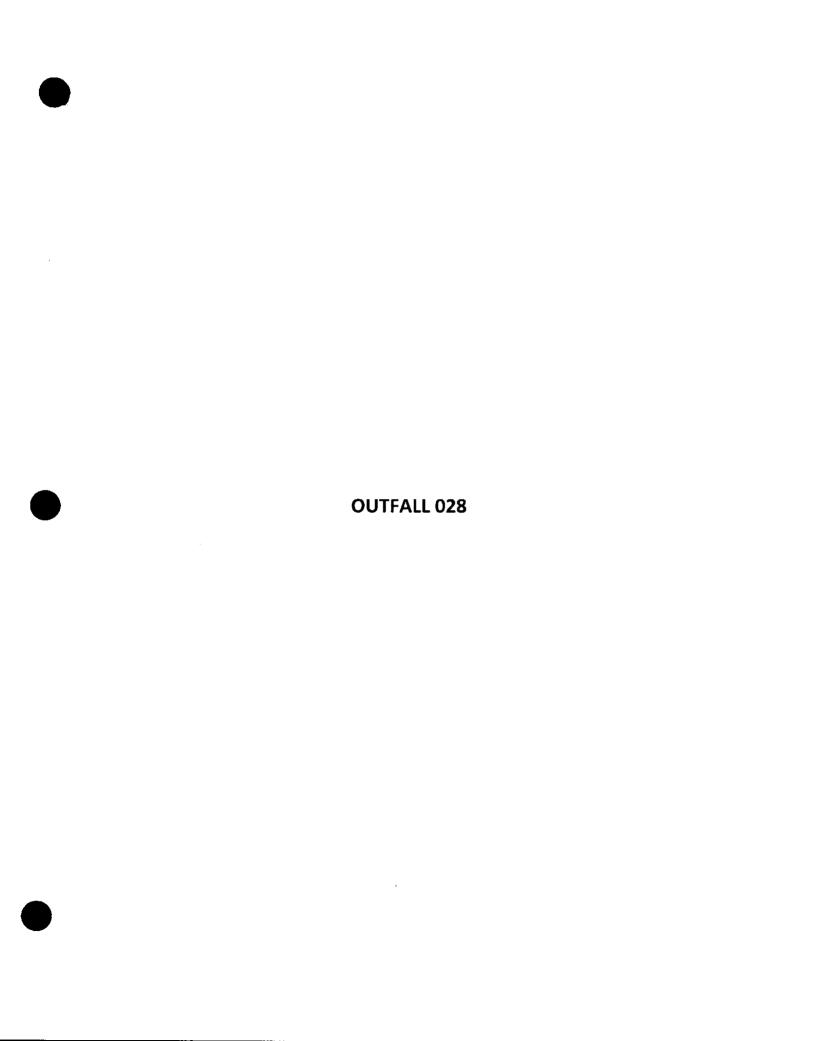
Part D- Provide data for the storm event(s) which resulted in the maximum values for the time weighted composite sample.

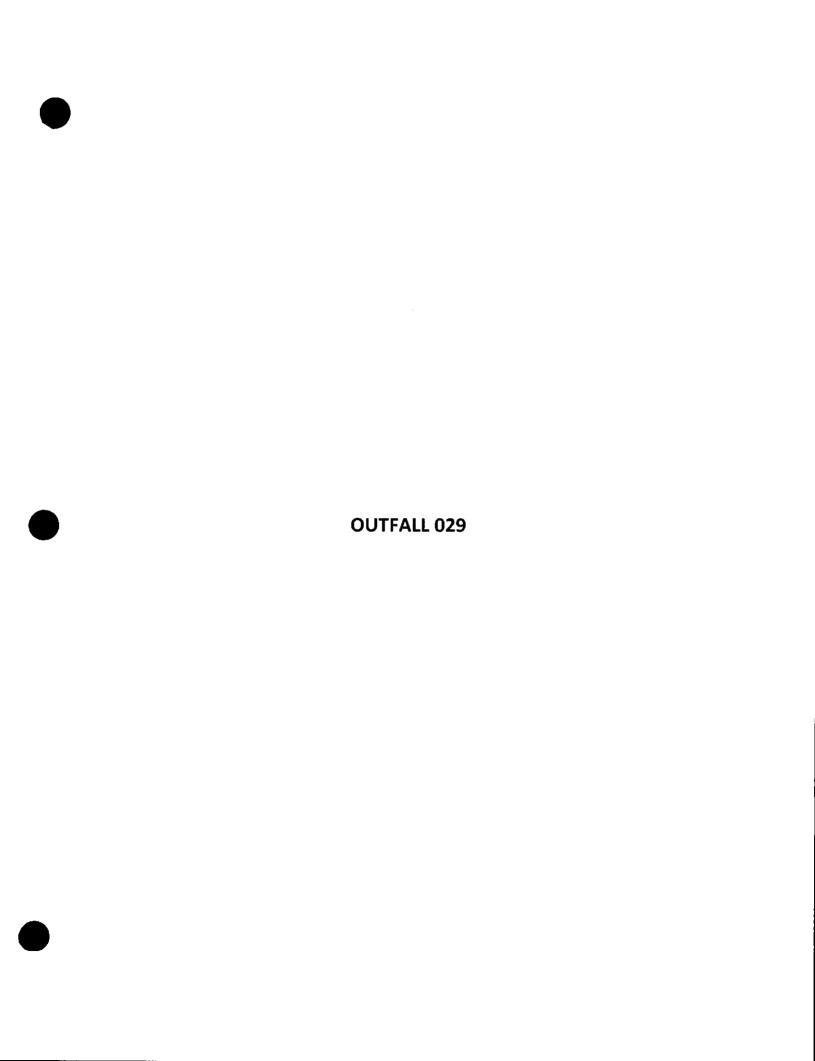
				<ol><li>Maximum flow rate</li></ol>	
		3. Total rainfall during	4. Number of hours between beginning	during rain event	6. Total flow from rain
<ol> <li>Date of Storm</li> </ol>	2. Duration of Storm	storm event (in	of storm measured and end of previous	(gallons/minute or specify	event (gallons or
event	Event (in minutes)	inches)	measurable event.	units)	specify units)
5/21/2012	180	0.1	105	29.3	5270.6

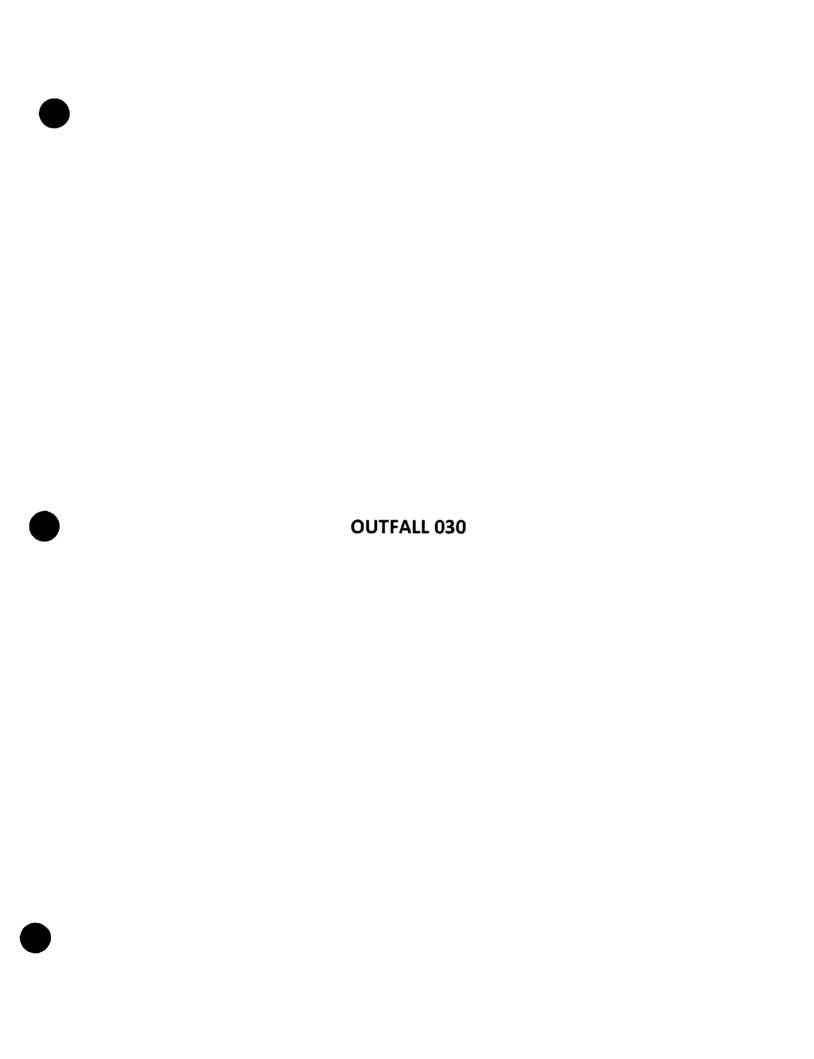


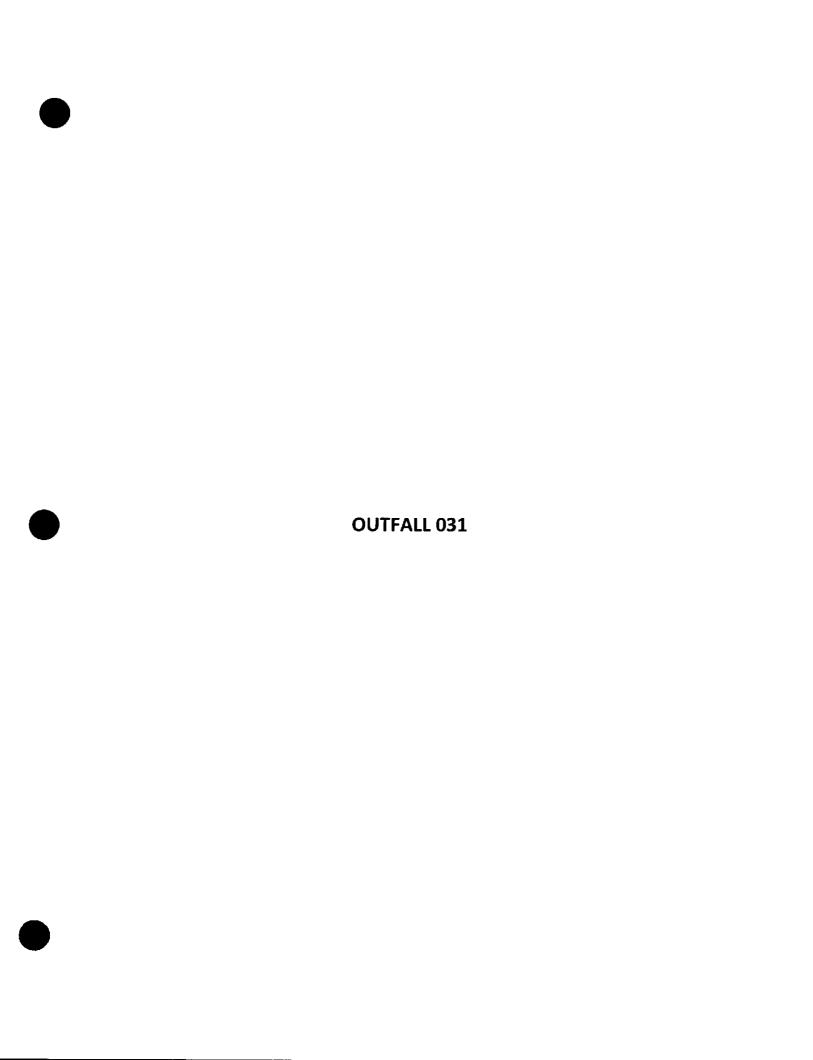












### **ATTACHMENT 2F-IX**

QC LABORATORIES DELAWARE, FORMERLY KNOWN AS ATLANTIC COAST LABORATORIES, INC. ACCREDITATION

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

OFFICE OF FIELD OPERATIONS
BUREAU OF LABORATORIES



Certifies that



68-00335 ATLANTIC COAST LABS A DIVISION OF QC LABORATORIES 630 CHURCHMANS ROAD NEWARK, DE 19702

Having duly met the requirement of
The Act of June 29, 2002 (P.L. 596, No. 90)
dealing with Environmental Laboratory Accreditation
(27 Pa. C.S. §§4101-4113) and the
National Environmental Laboratory Accreditation Conference Standard

is hereby approved as an

# Accredited Laboratory

As more fully described in the attached Scope of Accreditation

Expiration Date: 3/31/2013 Certificate Number: 010

Continued accreditation status depends on successful ongoing participation in the Program Certificate not transferable. Surrender upon revocation. To be complemously displayed at the Enboratory. Not valid unless accommanded by a valid Scope of Accreditation. Shall not be used to imply endorsament by the Commonwealth of Pennsylvania Customers are urged to varify the laboratory's current accreditation status. PA DEP is a NELAP recognized accreditation body.

Azren S/Alger, Chief Laboratory Accreditation Program Bureau of Laboratories

1500-FM-LABOOIS Rev. 8/7009





## Laboratory Scope of Accreditation

Page 1 of f

Attachment to Certificate of Accreditation 010, expiration date March 31, 2013. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

State Laboratory tD: 68-00335

EPA Lab Code:

DE00011

(302) 266-9121

Atlantic Const Laba a Division of QC Laboratories

630 Churchmans Road Newark, DE 19702

Mothad EPA 508	Analyte	Accreditation Type	Primary	Effective Date
	Hexachlorobenzene	NELAP	PA	1/22/2007
EPA SOS	Hexachiorocyclopeniadiene	NELAP	P۸	1/22/2007
EPA 508	Aroclor-1016 (PCB-1016)	NELAP	PA	1/22/2007
EPA 508	Araclor-1221 (PCB-1221)	NELAP	PA	1/22/2007
EPA 508	Aroclor-1232 (PCB-1232)	ИЕГУЬ	PA	1/22/2007
EPA SOS	Araclor-1242 (PCB-1242)	NELAP	PΛ	1/22/2007
EPA 508	Aroclor-1248 (PCB-1248)	NELAP	PΛ	1/22/2007
EPA 508	Arocfor-1254 (PCB-1254)	NELAP	PA	1/22/2007
EPA 508	Aroctor-1260 (PCB-1260)	NELAP	PA	1/22/2007
EPA 508	PCBs (sereen as individual prochlers)	NELAP	PΛ	1/22/2007
EPA 508	Aldrin (HHDN)	NELAP	PA	1/22/2007
EPA SOS	Chlordane (tech.)	NELAP	PA	1/22/2007
EPA SOR	Dieldrin	NELAP	PA	1/22/2007
EPA 508	Findria	NELAP	PA	1/22/2007
GPA 508	Lieptuchior	NELAP	PA	1/22/2007
EPA 508	Heptachlor equivide	NELAP	PA	1/22/2007
EPA 508	Methoxychine	NELAP	PΛ	
El'A 508	Propachior (Rupped)	NELAP	PA	1/22/2007
EPA 568	Toxaphene (Chlorinated camphene)	NELAP	PA	1/22/2007
EPA 508	Triffernia (Trellen)	NELVI	PA	1/22/2007
EPA 508	gomina-BHC (Lindane,	NELAP	PA.	3/21/2008
EPA \$15.3	gamma-Hexachlorucyclohexane)	14141414	17%	1/22/2007
EPA 515.3	Pentachtarophenal (PCP)	NELAP	PA	1/22/2007
PA 515.3	2,4,5-TP (Silvex)	NELAP	PA	1/22/2007
PA 515.3	2,4-D	NELAP	PA	1/22/2007
PA 515.3	Acilhorfen	NELAP	PA	3/21/2008
PA \$15.3	Dalapon (2,2-Dichloropropionic noid)	NELAP	PA	1/22/2007
PA \$15.3	Dieamba	NELAP	PA	1/22/2007
PA 515,3	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	PA	10/1/2009
713.3	Piotoram (4-Amino-3,5,6-trichlore-2-pyridineembaxylie acid)	NELAP	PA	6/2/2010
	Chair align			

The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized accrediting authority. Customers are urged to verify the laboratory's current accreditation standing.

www.dep.state.pa.us Issue Pate: 02/13/2012

# COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION

BUREAU OF LABORATORIES

LABORATORY ACCREDITATION PROGRAM



Certifies That

09-00131 QC Inc

1205 Industrial Blvd., Southampton, PA 18966-0514

Having duly met the requirement of
The act of June 29, 2002 (P.L. 596, No. 90)
dealing with Environmental Laboratories Accreditation
(27 Pa. C.S. §§4104-4113) and the
National Environmental Laboratory Accreditation Program Standard

is hereby approved as an

# Accredited Laboratory

As more fully described in the attached Scope of Accreditation

Expiration Date: 01/31/2014 Certificate Number: 011

Chairmed correliation which depends an access will auging positiops family the program Children of translation Manufact space present in The Acceptate and Majorian of situal statestory. Ret will be that resempted in year will design of Acceptate(a). Surface to see a large of a large position of Acceptate(a) of Promptivals. Children to see a large of a large position of a constitution as also Children to see and the only of the large position of a constitution as also PA OCP is a MELAP resuption acceptabilities help. aisen alger

Aaren S. Alger, Chief Laboratory Accreditation Program Bureau of Laboratories





#### **Laboratory Scope of Accreditation**

Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

QC Inc

1205 Industrial Blvd.

Southampton, PA 18966-0514

Matrix:	Drinking	Water
IVALLE LA LA CA		. A LETTON

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 1603		E. coli (Enumeration)	NELAP	PΛ	2/6/2009
EPA 180.1		Turbidity	NELAP	PA	12/1/2004
EPA 200,7	4.4	Ahuninum	NELAP	PΑ	12/1/2004
EPA 200,7	4.4	Barium	NELAP	PΛ	1/24/2001
EPA 200.7	4.4	Beryllium	NELAP	PA	1/24/2001
EPA 200,7	4.4	Horon	NELAP	PA	11/3/2006
EPA 200.7	4.4	Cadmium	NELAP	PΑ	1/24/2001
EPA 200.7	4.4	Calcium	NELAP	PA	1/16/2003
EPA 200.7	4,4	Chromium	NELÁP	A1	1/24/2001
EPA 200.7	4.4	Copper	NELAP	PΛ	1/24/2001
EPA 200.7	4,4	Iron	NELAP	PΛ	12/1/2004
EPA 200.7	4.4	Lithium	NELAP	PΑ	1/22/2010
EPA 200.7	4.4	Magnesium	nelap	PA	1/26/2006
EPA 200.7	4.4	Manganese	'NELAP	PA	12/1/2004
EPA 200.7	4,4	Molybdeninii	NELAP	PA	4/24/2008
EPA 200.7	4.4	Nickel	NELAP	PA	1/24/2001
EPA 200.7	4.4	Potassium	NELAP	PΛ	11/3/2006
EPA 200.7	4.4	Silica, as SiO2	NELAP	PA	11/3/2006
EPA 200.7	4.4	Silicon	NELAP	PA	12/1/2004
EPA 200.7	4,4	Silver	NELAP	PA	1/24/2001
EPA 200.7	4.4	Sodium	NELAP	PA	1/24/2001
EPA 200.7	4.4	Strontium	NELAP	PA	11/3/2006
EPA 200.7	4.4	Sulfur	NELAP	PA	12/3/2007
BPA 200.7	4.4	Vanadium	NELAP	PA	11/3/2007
EPA 200.7	4,4	Zine	NELAP	PA	12/1/2004
EPA 200.8	5.4	Aluminum	NELAP	PA	9/23/2004
EPA 200,8	5.4	Antimony	NELAP	PA	9/23/2004
EPA 200.8	5.4	Arsonic	NELAP	PA	9/23/2004
GPA 200.8	5.4	Barium	NELAP	PA	9/23/2004
EPA 200.8	5.4	Beryllium	NELAP	PΛ	9/23/2004
EPA 200.8	5,4	Cadmium	NELAP	PA	9/23/2004
EPA 200,8	5.4	Chromium	NELAP	PA	9/23/2004
EPA 200,8	5.4	Copper	NEJ.AP	PA	9/23/2004
EPA 200.8	5.4	Lead	NELAP	PΑ	9/23/2004
El'A 200.8	5.4	Mangonese	NELAP	PA	9/23/2004
EPA 200.8	5.4	Molybdenum	NELAP	PA	11/3/2006
EPA 200.8	5.4	Nickel	NELAP	PA	9/23/2004
EPA 200.8	5.4	Setenium	NELAP	PA	9/23/2004
EPA 200.8	5.4	Silver	NELAP	PA	9/23/2004

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The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

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Issue Onte: 03/26/2013





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DRP Laboratory ID: 09-00131

EPA Lab Code: PA00018

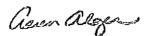
TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Drinking Water

Method	Revision	Analyto	Accreditation Type	Primary	Effective Date
EPA 200.8	5.4	Thalllom	NELAP	PA	9/23/2004
UPA 200.8	5,4	Uraniom, total	NELAP	PΛ	4/9/2010
EPA 200.8	5.4	Vanadium	NELAP	PA	11/3/2006
EPA 200.8	5.4	Zinc	NELAP	PA	9/23/2004
EPA 200.9	2.2	Thallium	NELAP	PA	1/24/2001
EPA 245,1	3,0	Mercury	NELAP	PΑ	1/24/2001
EPA 300.0	2.1	Bromide	NELAP	PA	1/16/2003
EPA 300.0	2.1	Chloride	NELAP	PΑ	12/1/2004
EPA 300,0	2,1	Phiaride	NELAP	PA	8/5/2003
EPA 300.0	2.1	Nitrate as N	NELAP	PA	1/24/2001
EPA 300.0	2,1	Nitrite as N	NELAP	PA	1/24/2001
EPA 300.0	2.1	Sulfate	NELAP	PA	1/24/2001
EPA 300.0	2.1	Total nitrate-nitrite	NELAP	PA	11/4/2011
EPA 314.0		Perchlorate	NELAP	PA	6/20/2007
EPA 351,2		Kjeldahl nitrogen, total (TKN)	NELAP	PΛ	1/27/2012
EPA 420.1		Total phenolics	NELAP	PA	1/27/2012
EPA 504.1	1.1	1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	PA	8/5/2003
EPA 504,1	1.3	1,2-Dibromo-3-chloropropane (DRCP, Dibromochloropropane)	NELAP	PA	1/24/2001
EPA 504.1	1.1	1,2-Dibromoethana (EDB, Ethylene dibromide)	Nelap	PA	1/24/2001
EPA 508	3,1	4.4'-DDD	NELAP.	PA	9/21/2012
EPA 508	3,1	4,4'-DDE	NELAP	PA	9/21/2012
EPA 508	3.1	4,4'-DDT	NELAP	PΛ	9/21/2012
EPA 508	3.1	Aldrin (HHDN)	NELAP	PΑ	9/21/2012
EPA SO8	3.1	Aroclor-1016 (PCB-1016)	NELAP	PA	9/21/2012
EPA SO8	3.1	Aroclor-1221 (PCB-1221)	NELAP	PA	9/21/2012
EPA 508	3.1	Aroclor-1232 (PCB-1232)	NELAP	PΛ	9/21/2012
EPA 508	3.1	Aroclor-1242 (PCB-1242)	NELAP	PΛ	9/21/2012
EPA 508	3,1	Aroclor-1248 (PCB-1248)	NELAP	PA	9/21/2012
EPA 508	3.1	Aroclor-1254 (PCB-1254)	NELAP	PA	9/21/2012
EPA 508	3.1	Aroclor-1260 (PCB-1260)	NELAP	PΛ	9/21/2012
EPA 508	3.1	Chlordane (tech.)	NELAP	PA	9/21/2012
EPA 508	3,1	Dieldrin	NELAP	PA	9/21/2012
EPA 508	3,1	Endosulfan I	NELAF	PA	9/21/2012
EPA 508	3.1	Endosulfan II	NELAP	PΛ	9/21/2012
EPA 508	3.1	Endosulfun sulfate	NELAP	PA	9/21/2012
EPA 508	3.1	Endrin	NELAP	PΛ	9/21/2012
EPA 508	3.1	Endrin aldehyde	NELAP	PA	9/21/2012
EPA 508	3.1	Endrin kelone	NELAP	PA	9/21/2012
EPA 508	3.1	Heptachlor	NELAP	PA	9/21/2012
EPA 508	3.1	Heptachlor epoxide	NELAP	PA	9/21/2012
EPA 508	3.1	Hexachlorobenzene	NELAP	PA	9/21/2012
EPA 508	3.1	Methoxychlor	NELAP	PA	9/21/2012
EPA SOR	1.6	Propachlor (Rannod)	NELAP	PA	9/21/2012
EPA 508	3,1	Toxophene (Chlorinated camphene)	NELAP	PA	9/21/2012



The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NBLAP recognized Accreditation Body. Customers are usged to verify the laboratory's current accreditation stending.

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Issue Date: 03/26/2011





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 508	3,1	Trifluralin (Treflan)	NELAP	PA	9/21/2012
EPA 508	3.1	alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	PΆ	9/21/2012
EPA 508	3,1	alpha-Chlordano	NELAP	PA	9/21/2012
EPA 508	3,1	beta-BHC (beta-Hexachlorocyclohexano)	NELAP	PA	9/21/2012
BPA 508	3.1	delta-BHC (delta-Hexachlorocyclohexane)	NELAP	PΛ	9/21/2012
EPA 508	3.1	gamma-BHC (Lindanc, gamma- Hexachlorocyclohexane)	NELAP	PΑ	9/21/2012
EPA 508	3.1	gamma-Chlordane	NELAP	PA	9/21/2012
EPA 515,3	1.0	2,4,5-T	NELAP	PA	9/21/2012
EPA 515,3	1.0	2,4,5-TP (Silvex)	NELAP	PΛ	9/21/2012
EPA 515,3	0.1	2,4-D	NELAP	PA	9/21/2012
EPA 515,3	1.0	Acifluorfen	NELAP	PA	9/21/2012
EPA 515,3	1.0	Dalapon (2,2-Dichloropropionic acid)	NELAP	PA	9/21/2012
EPA 515.3	1.0	Dicamba	NELAP	PA	9/21/2012
БРА 515.3	1.0	Dinoseb (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	PA	9/21/2012
EPÁ 515,3	1.0	Pentachlorophenol (PCP)	NELAP	PA	9/21/2012
E.212 A43	1.0	Piclomm (4-Amino-3,5,6-trichloro-2- pyridinecarhoxylic acid)	NELAP	PA	9/21/2012
EPA 524.2	4_1	1,1,1,2-l'etrachioroctione	NELAP	PA	1/24/2001
EPA 524.2	4.1	1.1.1-Trichloroethane	NELAP	PA	1/24/2001
EPA 524,2	4.1	1,1,2,2-Tetrachloroethane	NELAP	PΑ	1/24/2001
EPA 524.2	4.1	1,1,2-Trichtoro-1,2,2-trifluorocthane (Freen 113)	NELAP	PA	11/3/2006
EPA 524.2	4.1	1,1,2-Trichloroethanc	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,1-Dichloro-2-propanone (1,1- Dichloropropanone)	NELAP	PA	6/28/2006
EPA 524.2	4.1	1,1-Dichloroethane	NELAP	PΛ	1/24/2001
EPA 524.2	4.1	1,1-Dichloroethene (1,1-Dichloroethylene)	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,1-Dichleropropene	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,2,3-Trichlorobenzena	NELAP	PΑ	10/1/2003
EPA 524.2	4.1	1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	PA	1/24/2001
EPA 524,2	4.1	1,2,4-Trichlorobenzene	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,2,4-Trimethylbenzene	NELAP	PΑ	10/1/2003
EPA 524.2	4.1	1,2-Dibromo-3-chloropropone (DBCP, Dibromochloropropane)	NELAP	PA	11/12/2009
EPA 524,2	4.1	1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	PA.	5/22/2008
EPA 524.2	4.1	1,2-Dichtorobenzene (o-Dichtorobenzene)	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,2-Dichteroethane	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,2-Dichloropropana	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,3,S-Trichlorohenzene	NELAP	PΑ	6/28/2006
EPA 524.2	4.1	1,3,5-Trimethythenzeue	NELAP	PA	10/1/2003
EPA 524.2	4.1	1,3-Dichlorobenzene (m Dichlorobenzene)	NELAP	PA	1/24/2001
EPA 524.2	4.1	1,3-Dichloropropane	NELAP	PA	1/24/2001
EPA 524,2	4.1	1,4-Dichtorobenzene (p-Dichtorobenzene)	NELAP	PA	1/24/2001
EPA 524.2	4.1	1-Chlorolatione	NELAP	PA	6/28/2006



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Laster Date: 03/26/2013





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Drinking Water

Method	Revision	Analyto	Accreditation Type	Primary	Effective Date
EPA 524.2	4.1	2,2-Dichloropropane	NELAP	PA	1/24/2001
EPA 524.2	4.1	2-Bulanoue (Methyl ethyl ketone, MEK)	nelap	PΛ	6/28/2006
EPA 524,2	4.1	2-Chlorotoliiene	NELAP	PΛ	1/24/2001
EPA 524.2	4.1	2-Hexanone	NELAP	PA	6/28/2006
EPA 524.2	4.1	2-Nitropropane	NELAP	PÅ	6/28/2006
EPA 524.2	4.1	4-Chlorotolijene	NELAP	PA	1/24/2001
EPA 524.2	4.1	4-Methyl-2-pentanone (MIBK)	NELAP	PΛ	7/12/2006
EPA 524.2	4.1	Acetone	NELAP	PA	6/28/2006
EPA 524.2	4.1	Actylonitrile	NELAP	PA	6/28/2006
EPA 524.2	4.1	Allyl chloride (3-Chloropropene)	NELAP	PΛ	6/28/2006
EPA 524.2	4.1	Benzene	NELAP	PΛ	1/24/2001
El'A 524.2	4.1	Bromobenzene	NELAP	PΛ	1/24/2001
GPA 524.2	4.1	Bromochloromethane	NELAP	PΛ	10/1/2003
EPA 524.2	4.1	Bromodichloromethane	NELAP	PA	1/24/2001
6PA 524.2	4.1	Broinoforin	NELAP	PA	3/27/2001
EPA 524.2	4.1	Carbon disulfide	NELAP	PÁ	6/28/2006
EPA 524.2	4.1	Carbon tetrachloride	NELAP	PA	1/24/2001
EPA 524.2	4.1	Chloroacetonitrilo	NELAP	PA	6/28/2006
EPA 524.2	4.1	Chlorobenzene	NELAP	PA	1/24/2001
EPA 524.2	4.1	Chloroethane	NELAP	PA	
EPA 524.2	4.1	Chloroform	NELAP	PA	1/24/2001
EPA 524.2	4,1	Dibromochloromethane	NELAP	PA.	1/24/2001
	4.1	Dibronomethane			1/24/2001
BPA 524.2	4.1	Dichlorodilluoromethans (l <sup>2</sup> reon 12)	NBLAP	PA	1/24/2001
EPA 524.2 BPA 524.2	4.1	Diethyl ether (Ethyl ether)	NELAP	PA	10/1/2003
			NELAP	PA	6/28/2006
EPA 524.2	4.1	Disopropyi other (DIPE)	NELAP	PA	7/12/2006
EPA 524.2	4.1	Ethyl methocrylate	NELAP	PA	6/28/2006
EPA 524.2	4.1	Ethyl tert-bulyl ether (ETBE)	NELAP	PA	11/3/2006
EPA 524.2	4.1	Ethylbenzens	NELAP	PA	1/24/2001
EPA 524.2	4.1	Hexachlorobutadiene (1,3- Hexachlorobutadiene)	NELAP	PA	10/1/2003
EPA 524.2	4,1	Hexachloraethane	NBLAP	PA	6/28/2006
EPA 524.2	4.1	Iodomethano (Methyl iodide)	NELAP	PA	6/28/2006
EPA 524.2	4.1	Isopropylbenzeno (Cumeno)	Nelap	PA	10/1/2003
EPA 524.2	4.1	Methaerolein	NELAP	PA	11/3/2006
EPA 524.2	4.1	Methacrylonistile	NELAP	PΛ	6/28/2006
EPA 524.2	4.1	Methyl broinide (Bromomethane)	NELAP	PΑ	1/24/2001
EPA 524.2	'4.1	Methyl chloride (Chloromethane)	NELAP	PΑ	1/24/2001
EPA 524.2	4.1	Methyl tert-butyl other (MTBB)	NELAP	PΛ	10/1/2003
EPÁ 524.2	4.1	Methylacrylate	NELAP	PA	6/28/2006
EPA 524.2	4.1	Methylene chloride (Dichloromethane)	NBLAP	PΑ	1/24/2001
EPA 524,2	4.1	Methylmethacrylate	NRLAP	PA	6/28/2006
BPA 524,2	4.1	Naphthalene	NRLAP	PA	10/1/2003
EPA 524,2	4.1	Nitrobenzene	NELAP	PΛ	12/1/2004
EPA 524.2	4.1	Pentachloreethane	NELAP	PA.	6/28/2006
EPA 524.2	4.4	Propionitrile (Ethyl cyanide)	NELAP	PA	6/28/2006



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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Drinking Water

Method '	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 524,2	4.1	Styrene	NELAP	PA	1/24/2001
EPA 524.2	4.1	Tetrachlorgethene (PCE, Perchlorgethylene)	NELAP	PA	1/24/2001
EPA 524.2	4.1	Telcahydroforan (THF)	NELAP	PA	6/28/2006
EPA 524,2	4.1	Toluene	NELAP	PΛ	1/24/2001
EPA 524.2	4.1	Total tribalomethanes (TTHMs)	NBLAP	PΑ	1/24/2001
EPA 524,2	4.1	Trichloroethene (TCE, Trichloroethylane)	NELAP	PA	1/24/2001
EPA 524.2	4.1	Trichlarofluuromethane (Freon 11)	NELAP	PA	10/1/2003
EPA 524.2	4.1	Vinyl chloride (Chloroethene)	NELAP	PΛ	1/24/2001
EPA 524.2	4.1	Xylenes, total	NELAP	PA	1/24/2001
EPA 524.2	4.1	cis-1,2-Dichlorgetheng	NELAP	PA.	1/24/2001
CPA 524.2	4.1	cis-1,3-Dichloropropens	NELAP	PA	1/24/2001
EPA 524.2	4.1	n-Bulylbenzons	NELAP	PA	10/1/2003
EPA 524.2	4.1	n-Propythonzene	NELAP	PA	10/1/2003
EPA 524.2	4.1	p-Isopropyltolitene (4-Isopropyltoluene)	NELAP	PA	10/1/2003
EPA 524.2	4.1	sec-Butylbenzone	NELAP	PΛ	10/1/2003
EPA 524.2	4.1	tert-Amyl ethyl ether (TAEE)	NELAP	PA	1/23/2009
EPA 524.2	4.1	text-Amyl methyl other (TAME)	NELÁP	PA	11/3/2006
EPA 524.2	4.1	test-Butyl alcohol (2-Methyl-2-propanol)	NELAP	PΛ	6/28/2006
EPA 524.2	4.1	tert-Butylbenzene	NELAP	PA	10/1/2003
BPA 524.2	4.1	trans-1,2-Dichforoethene	NELAP	PA	1/24/2001
EPA 524.2	4,1	trans-1,3-Dichloropropend	NELAP	PA	12/1/2004
EPA 524.2	4.1	trans-1.4-Dichipro-2-butene	NELAP	PA	6/28/2006
EPA 525.2	2.0	2.4-Dinitrotoluene (2.4-DNT)	NBLAP	PA	10/2/2009
EPA 525.2	2,0	2,6-Dinitrotoluene (2,6-DNT)	NELAP	P۸	10/2/2009
EPA 525.2	2.0	4,4'-DDD	NELAP	PA	10/2/2009
EPA 525.2	2.0	4,4'-DDE	NELAP	PA	10/2/2009
EPA 525.2	2.0	4,4'-DDT	NELAP	PA	10/2/2009
EPA 525.2	2.0	Acenaphthylene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Acetochlor	NELAP	PΑ	10/2/2009
EPA 525,2	2.0	Alachlor (Lassu)	NELAP	PΑ	10/2/2009
EPA 525.2	2.0	Aldrin (HHDN)	NELAP	PA	4/9/2010
EFA 525.2	2.0	Anthracene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Atrazine	NELAP	PΑ	10/2/2009
EPA 525.2	2.0	Benzo[n]anthracene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Benzo[a]pyrene	NELAP	PΛ	10/2/2009
EPA 525,2	2.0	Benzo[b]fluoranthene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Benzo(ght)perylene	NBLAP	PΑ	10/2/2009
EPA 525.2	2.0	Benzo[k]fluoranthese	NELAP	PA	10/2/2009
EPA 525.2	2.0	Butachlor	NELAP	PA	10/2/2009
EPA 525.2	2.0	Butyl benzyl phihalate (Benzyl butyl phihalate)	NELAP	PA	10/2/2009
EPA 525,2	2.0	Chrysene (Benzo[a]phenanthiene)	NELAP	PA	10/2/2009
El'A 525.2	2.0	Di-n-butyl phthalate	NELAP	PΛ	10/2/2009
EPA 525.2	2.0	Distroctyl phthalate	NELAP	PA	10/2/2009
EPA 525.2	2.0	Dibenzo[n,h]anthracene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Dieldrin	NELAP	PA	10/2/2009



The Peansylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

BPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Drinking Water

Method	Revision	Analyto	Accreditation Type	Primary	Effective Date
EPA 525,2	2.0	Diethyl phthalate	NELAP	PΛ	10/2/2009
EPA 525,2	2.0	Dimethyl phihalote	NELAP	PA	10/2/2009
EPA 525.2	2,0	Endosalfau I	NELAP	PA	10/2/2009
EPA 525.2	2.0	Endosulfan II	NELAP	ľΛ	10/2/2009
El'A 525.2	2.0	Endosulfon sulfate	NELAP	PA	10/2/2009
EPA 525.2	2.0	Endrin	NELAP	PA	7/13/2010
EPA 525.2	2.0	Endrin aldeliyde	NELAP	ľA	10/2/2009
EPA 525.2	2.0	Endrin ketone	NELAP	PA	10/2/2009
EPA 525.2	2.0	Plyoranthene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Fluorene	NELAP	PA	10/2/2009
EPA 525,2	2.0	Heptachtor	NELAP	PA	10/2/2009
EPA 525.2	2.0	I (eptachior epoxide	NELAP	PA	10/2/2009
EPA 525,2	2.0	Hexachlorobenzene	NELAP	PA	10/2/2009
BPA 525.2	2.0	Hexachlomeyelopentadiene	NELAP	PΛ	10/2/2009
EPA 525.2	2.0	Indeno(1,2,3-cd)pyrene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Isophorone	NELAP	PA	
EPA 525.2	2.0	Methoxychior	NELAP	PA PA	10/2/2009
EPA 525.2	2.0	Metolachfor	NELAP	PΛ	10/2/2009
EPA 525.2	2,0	Metribuzio.	NELAP	PA	10/2/2009
EPA 525.2	2.0	Molinate	NELAP	PA	10/2/2009
EPA 525.2	2.0	Naphthalene	NELAP	PA.	10/2/2009
EPA 525.7	2.0	Pentachlorophenol (PCP)	NELAP	· PA	10/2/2009
EPA 525,2	2.0	Phénonthrene	NELAP	PA	10/2/2009
EPA 525.2	2.0	Propachlar (Ramrod)	NELAP	PA PA	10/2/2009
EPA 525,2	2.0	Pyrone	NELAP	PA PA	10/2/2009
EPA 525.2	2.0	Sinnaine	NELAP		10/2/2009
EPA 525.2	2.0	Terbacil	NELAP	PA.	6/29/2010
EPA 525.2	2.0	Trifhiralin (Treffan)	NELAP	PA	10/2/2009
EPA 525.2	2.0	alpha-BHC (alpha-Hexachlorocyclotiexane)	NELAP	PA NA	10/2/2009
EPA 525.2	2.0	alpha-Chiradone	NGLAP	PA	10/2/2009
EPA 525.2	2.0	beta-BHC (beta-Hexachlorosyclohexane)		PA	10/2/2009
EPA 525.2	2.0	bis(2-Bihylhexyl) adipate (di(2-Bihylhexyl)	NELAP	ľΑ	10/2/2009
		ailipate)	NELAP	PA	10/2/2009
BPA \$25.2	2.0	his(2-Ethylhexyl) phthalate (DEHP)	NELAP	PΛ	10/2/2009
EPA 525.2	2.0	cis-Nonachlor	NELAP	PΑ	10/2/2009
EPA 525.2	2.0	delta-BHC (delta-Hexachlorucyclohexane)	NELAP	PA	10/2/2009
EPA 525.2	2.0	gamma-BHC (Lindane, gamma- Hexachlorocyclohexane)	NELAP	PA	4/9/2010
EPA 525.2	2,0	gumua-Chlordane	NELAP	PA	10/2/2009
EPA 525,2	2.0	trans-Nonachlor	NELAP	PA	10/2/2009
EPA 552.2		Brompacetic soid (Monobromoscetic soid, MBAA)	NELAP	PA	2/10/2003
El'A 552.2		Bromochloroacetic acid (BCAA)	NELAP	PΛ	\$/26/2005
EPA 552,2	1.0	Chloreacetic seid (Monochloreacetic seid, MCAA)	NELAP	PA	2/10/2003
EPA 552,2		Dibromoscelie seid (DBAA)	NELAP	PA	2/10/2003



The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

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Ismia Unie: 03/26/2013





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-0013!

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS 1D: 09131

Matrix: Drinking Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 552.2	1.0	Dichlorosectio acid (DCAA)	NELAP	PΛ	2/10/2003
EPA 552.2	1,0	Total haloncelic acids (HAA)	NELAP	PA	2/10/2003
EPA 552.2	1.0	Trichloroscetic acid (TCAA)	NELAP	·PΛ	2/10/2003
BACH 8000		Chemical oxygen demand (COD)	NELAP	የሌ	1/27/2012
PA-DEP 3686		Ethane	nelap	PA	3/26/2013
PA-DEP 3686		Ethene	NELAP	PΛ	3/26/2013
PA-DEP 3686		Methane	NELAP	PA	3/26/2013
SM 2120 B		Color	NELAP	PA	12/1/2004
SM 2150 B		Odor	NELAP	PA	12/1/2004
SM 2320 B		Alkalinity as CaCO3	NELAP	PΛ	1/24/2001
SM 2510 B		Conductivity	NELAP	PA	5/6/2005
SM 2548 C		Total dissolved solids (TDS)	NELAP	PΛ	1/24/2001
SM 2550 B		Temperature, deg. C	NELAP	PA	12/1/2004
SM 3113 B		Antimony	NELAP	PA	1/24/2001
SM 3113 B		Arsenio	NELAT	PA	2/10/2003
SM 3113 B		Cadmium	NELAP	PA	1/24/2001
SM 3113 B		Lead	NELAP	PA	1/24/2001
SM 3113 B		Sclenium	NELAP	PΛ	1/24/2001
SM 3500-Cr D	18/19	Chromium VI	NELAP	PΛ	5/12/2011
SM 4500-CN- C/E		Total cyanide	NBLAP	PΛ	1/24/2001
SM 4500-CN- G		Amenable ayunide	NELAP	PA	1/24/2001
SM 4500-C) F		Residual free chlorine	NELAP	PA-	5/12/2011
SM 4500-Cl F		Total residual chlorine	NELAP	PA	5/12/2011
SM 4500-Cl G		Residual free chlorine	NELAP	PΛ	1/26/2006
SM 4500-CI G		Total residual chlorina	NBLAP	PA	5/12/2011
SM 4500-H+ B		pH	NELAP	PA	12/29/2005
SM 4500-NH3 D		Ammonia as N	NELAP	PΛ	6/20/2007
SM 4500-NO2- B		Nitrite as N	NELAI	PΛ	1/24/2001
SM 4500-NO3- F		Nitrate as N	nelap	PA	7/12/2006
SM 4500-NO3- F		Nitrite us N	NELAP	PA	10/6/2008
SM 4500-NO3- F		Total nitrate-nitrite	NELAP	PΛ	11/12/2009
SM 4500-P B		Orthophosphate as P	NELAP	PΑ	4/4/2005
SM 4500-P F		Orthophosphate as P	NELAP	PA	5/12/2011
SM 5310 C		Dissolved organic carbon (DOC)	NELAP	PΑ	4/12/2004
SM 5310 C		Total organic carbon (TOC)	NELAP	PΑ	4/12/2004
SM 5320 B		Total organic hatides (TOX)	NELAP	PΛ	12/1/2004
SM 5540 C		Surfactants as MBAS	NELAP	PΑ	12/1/2004
SM 5910 B		UV 254	NELAP	PΛ	4/12/2004
SM 9215 B		Heterotrophic bacteria (Enumeration)	NELAP	PΛ	6/5/2012
SM 9222 R		Total coliform (Enumeration)	NELAP	ľA	9/28/2011
SM 9222 B + 9222 G or 9221 F (EC+MUG)		Total coliform & E. coli	NELAT	PA	1/24/2001
SM 9223 Colilert		Total coliforn & E. coll	NELAP	PΛ	1/24/2001

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
GPA 1010		Ignitability	NELAP	PΑ	7/12/2006
EPA 1103.1	•	E. coli (Enumeration)	NBLAP	PA	6/20/2007
EPA 1311		Toxicity characteristic leaching procedure (TCLP)	NELAP	PA	7/12/2006
EPA 1312		Synthetic precipitation leaching procedure (SPLP)	NELAP	PA	7/12/2006
EPA 160,4		Residue, volatile	NELAP	PA	5/31/2005
EPA 1600		Enterococci	NELAP	PA	5/31/2005
EPA 1603		E. coli (Enumeration)	NELAP	PA	4/24/2008
EPA 1664	٨	Non-polar material	NELAP	PΑ	1/26/2006
EPA 1664	A	Oil and grease	NELAP	PA	5/31/2005
EPA 170.1		Temperaturo, deg. C	NELAP	PA	6/28/2006
EPA 180, (		Turbidity	NELAP	PΑ	5/31/2005
EPA 200,2		Metals sample preparation	NELAP	PA	1/26/2006
EPA 200.7	4.4	Aluminum	NELAP,	PA	5/31/2005
EPA 200.7	4.4	Autimony	NELAP	PA	5/31/2005
EPA 200.7	4.4	Arsenio	NELAP	PA	
EPA 200,7	4.4	Barium	NELAP	PΛ	5/31/2005
EPA 200.7	4.4	Beryllium	NELAP	PA	5/31/2005
EPA 200.7	4.4	Boron	NELAP	PA	5/31/2005
EPA 200.7	4.4	Cadmium			5/31/2005
	4.4		NELAP	PA	5/31/2005
EPA 200.7		Colcium	NELAP	PΑ	5/31/2005
EPA 200.7	4.4	Chromium	NELAP	PA	5/31/2005
EPA 200.7	4.4	Cobalt	NELAP	PΛ	5/31/2005
EPA 200.7	4.4	Соррсг	NELAP	PA	5/31/2005
BPA 200.7	4.4	Iron	NELAP	PA	5/31/2005
EPA 200.7	4.4	Lead	NELAP	PΛ	\$/31/2005
EPA 200.7	4.4	Lithian	NELAP	PA	1/22/2010
EPA 200.7	4.4	Magnesium	NELAP	PΛ	5/31/2005
EPA 200.7	4.4	Manganese	NELAP	PA	5/31/2005
EPA 200.7	4.4	Molybdenum	NELAP	₽A	5/31/2005
EPA 200.7	4.4	Nickel	NELAP	PA	5/31/2005
EPA 200.7	4.4	Potassium	nelap	λq	5/31/2005
EPA 200.7	4.4	Sclanium	NELAP	PΛ	5/31/2005
EPA 200.7	4.4	Silica, as SiO2	NELAP	PA	11/3/2006
EPA 200.7	4.4	Silicon	NELAP	PΛ	7/12/2006
EPA 200.7	4.4	Silver	NELAP	PA	5/31/2005
EPA 200.7	4.4	Sodium	NELAP	PA	5/31/2005
EPA 200.7	4.4	Strontium	NELAP	₽A	11/3/2006
EPA 200.7	4.4	Salfar	NELAP	PΛ	12/3/2007
EPA 200.7	4.4	Thallium	NELAP	PA	5/31/2005
EPA 200.7	4.4	Tin	NELAP	PA	5/31/2005
EPA 200.7	4.4	Tilanium	NELAP	PA	5/31/2005
EPA 200.7	4.4	Vonadiom	NELAP	PΛ	5/31/2005
EPA 200.7	4.4	Zine	NELAP	PA	5/31/2005
EPA 200.7	4.4	Zirconium	NELAP	PA	1/17/2008



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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 200.8	5.4	Aluminum	NELAP	PA	5/31/2005
EPA 200.8	5,4	Antimony	NELAP	PÅ	5/31/2005
EPA 200,8	5.4	Arsenio	NELAP	PA	5/31/2005
EPA 200.8	5.4	Barium	NELAP	PΛ	5/31/2005
EPA 200.8	5.4	Beryllium	NELAP	PA	5/31/2005
EPA 200.8	5.4	Codminor	NELAP	PA	5/31/2005
HPA 200.8	5.4	Calcium	NELAP	PΛ	1/17/2008
EPA 200.8	5.4	Chremium	NELAP	PA	5/31/2005
EPA 200,8	5.4	Cobalt	NELAP	PΑ	5/31/2005
EPA 200.8	5.4	Copper	NELAP	PΑ	5/31/2005
EPA 200.8	5,4	Iron	NELAP	PA	1/26/2006
EPA 200.8	5.4	Lead	NELAP	PA	5/31/2005
EFA 200.8	5,4	Magnesium	NELAP	PA	1/17/2008
EPA 200.8	5.4	Manganese	NELAP	PA	5/31/2005
EPA 200.8	5.4	Molybdenum	NELAP	PA	5/31/2005
EPA 200.8	5.4	Niekol	NELAP	PA	5/31/2005
EPA 200.8	5.4	Potassinin	NELAP	PA	1/17/2008
BPA 200.8	5.4	Selenjum	NELAP	PA	5/31/2005
EPA 200.8	5.4	Silver	NELAP	PA	5/31/2005
EPA 200.8	5,4	Sodium	NELAP	PA	1/17/2008
BPA 200,8	5,4	Thallium	NELAP	PA	5/31/2005
EPA 200.8	5.4	Tin	NELAP	PÅ	1/26/2006
EPA 200,8	5.4	Tilanium	NELAP	PA	1/26/2006
EPA 200.8	5.4	Uranium, total	NBLAP	PΑ	7/10/2012
EPA 200,8	5.4	Vauadium	NELAP	PA	5/31/2005
EPA 200.8	5,4	Zinc	NELAP	PA	5/31/2005
EPA 200.9	2.2	Thallium	NELAP	PΛ	11/3/2006
EPA 245.1	3.0	Mercury	NELAP	PÁ.	5/31/2005
EPA 300.0	2.1	Bromide	NELAP	PA	5/31/2005
EPA 300.0	2.1	Chloride	NELAP	PA	5/31/2005
EPA 300.0	2.1	Fluoride	NELAP	PA	5/31/2005
EPA 300.0	2.1	Nitrate as N	NELAP	PA.	5/31/2005
EPA 300.0	2,1	Nitric as N	NELAP	PA	5/31/2005
EPA 300.0	2,t	Sulfate	NELAP	PΛ	5/31/2005
EPA 300,0	2.1	Total nitrate-nitrite	NELAP	PA	10/6/2008
EPA 3005	Ā	Preconcentration under seid	NELAP	PA	1/26/2006
EPA 3010	Á	Hat plate acid digestion (IINO3 + HCl)	NELAP	PA	1/26/2006
EPA 3051	Ā	Microwave digestion of solids (HNO3 + HCl)	NELAP	PA	3/26/2013
EPA 3060	Α	Alkaline digestion of C1(VI)	NELAP	PA.	6/20/2007
EPA 3500B		Organics extraction and sample preparation	NELAP	PΛ	6/20/2007
EPA 351.2		Kjeldahl nitrogen, total (TKN)	NELAP	PA	5/31/2005
EPA 3510	c	Separatory funnel fiquid-liquid extraction	NELAP	PA	7/12/2006
EPA 3535		Solid-phase extraction (SPE)	NELAP	PΑ	10/2/2009
EPA 3620	В	Florisil clennup	NELAP	PA.	12/29/2006
EPA 3560	В	Sulfur eleanup	NELAP	PA	12/29/2006



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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primery	Effective Date
EPA 3665	٨	Sulfuric acid/permanganate clean-up	NELAP	PA	12/29/2006
EPA 420,1		Total phenotics	NELAP	PΛ	5/31/2005
EPA 5030B		Aqueous-phase purge-and-trap	NELAP	PA	7/12/2006
EPA 6010		Aluminum	NELAP	PA	1/26/2006
EPA 6010		Antimony	NELAP	PΛ	1/26/2006
EPA 6010		Arsonic	nelap	PΑ	1/26/2006
EPA 6010		Barium	NELAP	PA	1/26/2006
EPA 6010		Beryllium	NELAP	PA	1/26/2006
EPA 6010		Boron	NELAP	PΑ	1/26/2006
EPA 6010		Cadminn	NELAP	PA	1/26/2006
EPA 6010		Catcium	NELAP	ľÁ	1/26/2006
EPA 6010		Chromium	NELAP	PA	1/26/2006
EPA 6010		Cobalt	NELAP	PA	1/26/2006
EPA 6010		Соррег	NBLAP	PA	1/26/2006
EPA 6010		Iron	NELAP	PΛ	1/26/2006
EPA 6010		Lead	NELAP	PA	1/26/2006
EPA 6010		Lithian	NELAP	PΛ	1/26/2006
EPA 6010		Magnesium	NELAP	PA	1/26/2006
EPA 6010		Manganese	NELAP	PΛ	1/26/2006
EPA 6010	В	Metals by ICP/AES	NELÁP	PA.	1/12/2011
EPA 6010	c	Metals by ICP/A6S	NELAP	PA	1/19/2011
EPA 6010		Molybdenum	NELAP	PA	1/26/2006
EPA 6010		Nickel	NELAP	PΛ	1/26/2006
EPA 6010		Potassium	NELAP	PA	1/26/2006
EPA 6010		Selenium	NELĀP	PΛ	1/26/2006
EPA 6010		Silver	NELAP	PΛ	1/26/2006
EPA 6010		Sodinn	NELAP	PA	1/26/2006
EPA 6010		Strontium	NELAP	PA.	1/26/2006
EPA 6010		Thallium	nelap	PÅ	1/26/2006
EPA 6016		Tin	NELAP	PÀ	1/26/2006
EPA 6010		Tilanium	NELAP	PA	1/26/2006
EPA 6010		Vanadium	NELAP	PA	1/26/2006
EPA 6010		Zinc	NELAP	PA	1/26/2006
EPA 6010		Zirconium	NELAP	PA	1/17/2008
EPA 608		4,4°-DDD	NELAP	PA	5/31/2005
EPA 608		4,4'-DDE	NELAP	PA	5/31/2005
EPA 608		4,4'-DĐT	NELAP	PA	5/31/2005
EPA 608		Aldrin (HHDN)	NELAP	PA	5/31/2005
EPA 608		Araclor-1016 (PCB-1016)	NELAP	PA	5/31/2005
EPA 608		Aroclor-1221 (PCB-1221)	NELAP	PΛ	5/31/2005
EPA 608		Aruclor-1232 (PCB-1232)	NELAP	PΛ	5/31/2005
EPA 608		Arnelor-1242 (PCB-1242)	NELAP	PA	\$/31/2005
EPA 608		Arnelor-1248 (PCB-1248)	NELAP	₽Λ	5/31/2005
EPA 608		Aroclor-1254 (PCB-1254)	NELAP	PΑ	5/31/2005
EPA 608		Aroclor-1260 (PCB-1260)	NELAP	PA	5/31/2005



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DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 608		Arocler-1262 (PCB-1262)	NELAP	PA	5/12/2011
EPA 608		Aroclor-1268 (PCB-1268)	NELAP	7.9	5/12/2011
EPA 608		Chlordane (tech.)	NECAP	PA	5/31/2005
EPA 608		Dieldrin	NELAP	ľΑ	5/31/2005
RPA 608		Endosulian I	NELAP	PA	5/31/2005
EPA 608		Endosulfan []	NELAP	PA.	5/31/2005
EPA 608-		Endosulfan sulfate	NELAP	PΑ	5/31/2005
EPA 603		Endrin	NELAP	PA	5/31/2005
EPA 608		Endrin aldehyde	NELAP	PA	5/31/2005
EPA 608		Endrin ketone	NELAP	PΑ	1/26/2006
EPA 608		Fleptacklor	NELAP	PA	5/31/2005
EPA 608		Heptachlor epoxide	NELAP	PA.	5/31/2005
EPA 608		Methoxychler	NELAP	PA	1/26/2006
EPA 60B		Mirex	NELAP	PA	1/26/2006
EPA 608		Toxaphene (Chlorinated camphone)	NELAP	PA	5/31/2005
EPA 608		elpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	PΛ	\$/31/2005
EPA 608		alpha-Chiurdene	NELAP	ľA	4/24/2008
EPA 608		beta-BHC (beta-Hexachlorosyclohexane)	NELAP	PA	5/31/2005
EPA 608		delta-BHC (delta-Hexachlorocyclohexane)	NELAP	PA	5/31/2005
EPA 608		gamma-BHC (Lindane, gamma- Hexachlorocyclohexane)	NELAP	PΛ	5/31/2005
BPA 608		gamma-Chlordane	NELAP	PA	4/24/2008
EPA 624		1,1,1,2-Tetrachloroethane	NELAP	PA	7/12/2006
EPA 624		1,1,1-Trichloroethane	NELAP	PA	5/31/2005
EPA 624		1,1,2,2-Tetrachloroethane	NELAP	PA.	5/31/2005
EPA 624		1,1,2-Trichlomethane	NELAP	PΛ	5/31/2005
EPA 624		1,1-Dichlorgerhane	NELAP	PA	5/31/2005
EPA 624		1,1-Dichloroethene (1,1-Dichlornethylene)	NELAP	PA	5/31/2005
EPA 624		1,1-Dichloropropenc	NELAP	PA.	7/12/2006
EPÁ 624		1,2,3-Trichlorobenzenc	NELAP	PA	7/12/2006
EPA 624		1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	PA	7/12/2006
EPA 624		1,2,4-Trichtorobenzene	NELAP	PA	7/12/2006
EPA 624		1,2,4-Trimethylbenzene	NELAP	PΑ	7/12/2006
EPA 624		1,2-Dibronio-3-chioropropane (DBCP, Dibromochioropropane)	NELAP	PA	7/12/2006
EPA 624		1,2-Dibromoethane (EDB, Bthylene dibromide)	NELAP	PA	7/12/2006
EPA 624		1,2-Dibromociliene	NELAP	PÁ	1/22/2010
EPA 624		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	PA	5/31/2005
EPA 624		1,2-Dichloroethane	NELAP	PA	5/31/2005
EPA 624		1,2-Dichloropropane	NELAP	PA	5/31/2005
EPA 624		1,3,5-Trimethylbenzene	NELAP	PΛ	7/12/2006
EPA 624		1,3-Dichlombenzene (m-Dichlorobenzene)	NELAP	PA	5/31/2005
EPA 624		1,3-Dichleropropune	NELAP	PA	7/12/2006
EPA 624		1,4-Dichlorabenzene (p-Dichlorobenzene)	NELAT	ľΑ	5/31/2005
EPA 624		1,4-Dioxane (1,4-Diothyleneoxide)	NELAP	PA	11/3/2006

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DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 624		2,2-Dichloropropano	NGLAP	PΛ	7/12/2006
EPA 624		2-Butanone (Methyl ethyl ketone, MEK)	NELAP	PΑ	7/12/2006
EPA 624		2-Chloroethyl vinyl ether	NELAP	PA	5/31/2005
EPA 624		2-Chiarotolisene	NELAP	PΛ	7/12/2006
EPA 624		2 Неханоле	NELAP	PA	7/12/2000
EPA 624		4-Chlorotohiene	NELAP	PA	7/12/2006
EPA 624		4-Methyl-2-pentanone (MISK)	NELAP	PA	7/12/2006
EPA 624		Accione	NELAP	PA	7/12/2006
EPA 624		Acrolein (Propenal)	NELAP	PA	
EPA 624		Acrylonitóle	NELAP	PA	5/31/2005 5/31/2003
EPA 624		Allyl chloride (3-Chloropropene)	NELAP	PA	
EPA 624		Benzene	NELAP	PA	11/3/2006
EPA 624		Brontoberrene	NELAP	PA	5/31/2005
EPA 624		Bromochloromethane	NELAP	PΛ	7/12/2006
EPA 624		Bromodichloromethens	NELAP	PA	7/12/2006
EPA 624		Bremeform	NELAP	PA	5/31/2005
EPA 624		Carban disulfide	NELAP	PA.	5/31/2005
EPA 624		Curbon tetrachloride	Nelap	PA	7/12/2006
EPA 624		Chlorobenzene	NELAP	PA	5/31/2005
BPA 624		Chlorodifluoromethane (Freon 22)	NELAP	PA PA	5/31/2005
EPA 624		Chloroethane	NELAP	PA PA	1/22/2010
EPA 624		Chloroform	NELAP		5/31/2005
EPA 624		Chloroprene (2-Chloro-1,3-buladiene)	NELAP	PA DA	5/31/2005
EPA 624		Dibromochloromethane	NELAP	PA	1/23/2009
EPA 624		Dibromomethane	NELAP	PA	5/31/2005
EPA 624		Dichlorodiffuoromethane (Freen 12)	NELAP	PA	7/12/2006
EPA 624		Diisopropyl ether (DIPE)	NELAP	PA	7/12/2006
EPA 624		Elhanol	NELAP	PA	7/12/2006
EPA 624		Ethylbenzene	NELAP	PA	11/3/2006
EPA 624		Hexachlorobutadiene (1.3-	NELAP	PΛ	5/3 (/2005
		Hexachlorobutadione)	MEDAL	PA	4/24/2008
EPA 624		lodomethane (Methyl iodide)	NECAP	PA	115946
EPA 624		Isopropylbenzene (Cumene)	NELAP	PΛ	11/3/2006
EPA 624		Methyl bromide (Bromomethane)	NELAP	PA	7/12/2006
EPA 624		Methyl chloride (Chloromethauc)	NELAP	PA	5/31/2005
EPA 624		Methyl tert-butyl ether (MTBE)	NELAP	ľΑ	5/31/2005
EPA 624		Mulhyleno chloride (Dichloromethane)	NELAP	PA.	1/26/2006
EPA 624		Naphthalene	NELAP	PA	5/31/2005
EPA 624		Styrenc	NELAP	PA	7/12/2006
EPA 624	•	Tetrachloroethene (PCE, Perchloroethylene)	NELAP	PA	1/26/2006
EPA 624	•	Tetrahydroflaan (THP)	NELAP	PΛ	5/31/2005
EPA 624		Toluene	NELAP	PΛ	11/3/2006
EPA 624	•	Trichloroethene (TCE, Trichloroethylene)	NELAP	PA	5/31/2005
EPA 624		Trichlorafluoromethano (Prean 11)	NBLAP	PA	5/J 1/2005
BPA 624		Vinyl acetato	NELAP	PA	5/31/2005
EPA 624	•	Vinyl chloride (Chloroethene)	NELAP	PA	7/12/2006
		,	* - 4.4125 74	14	5/31/2005

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The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NRLAP recognized Accreditation Body. Customers are neged to verify the laboratory's current accreditation standing.

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Isaue Date; 03/26/2013





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Non-Potable Water

Method	Revision Analyte	Accreditation Type	Primary	Effective Date
EPA 624	Xylones, total	NELAP	PΑ	5/31/2005
EPA 624	cis-1,2-Dichlordethenc	NELAP	PA	7/12/2006
EPA 624	cis-1,3-Dichloropropenc	NELAP	PA	5/31/2005
EPA 624	m+p-Xylene	NELAP	PA	7/12/2006
EPA 624	n-Butylbenzene	NELAP	PA	7/12/2006
EPA 624	n-Propylbenzene	NELAP	PΛ	7/12/2006
EPA 624	a-Xylene	NELAP	PA	7/12/2006
EPA 624	g-lsopropylioluene (4-lsopropylioluene)	NELAP	PA	11/3/2006
EPA 624	sec-Butylhenzene	NELAP	PA	7/12/2006
EPA 624	tert-Amyl othyl other (TAEE)	NELAP	PA	12/29/2006
EPA 624	tort-Amyl methyl ether (TAME)	NELA!	PΑ	12/29/2006
EPA 624	tert-Butyl alcohol (2-Methyl-2-propanol)	NGLAP	PA	1/26/2006
EPA 624	fert-Butyl ethyl ether	NELAP	PΛ	11/3/2006
EPA 624	tert-Butythenzene	NELAP	PΑ	7/12/2006
BPA 624	trans-1,2-Dichloroethene	NELAP	PA	5/31/2005
EPA 624	trans-1,3-Dichloropropene	NECAP	PA	5/31/2005
EPA 624	trans-1,4-Dichloro-2-butenc	NELAP	PΛ	11/3/2006
EPA 625	1,1'-Biphenyl (Biphenyl, Cemonene)	NELAP	PΛ	5/12/2011
BPA 625	1,2,3,4-Tetrachlorobenzeue	NELAP	PA	11/3/2006
EPA 625	1,2,4,5-Tetrachlorobenzene	NELAP	PA	1/26/2006
EPA 625	1,2,4-Trichlorobenzene	NELAP	PΛ	5/31/2005
EPA 625	1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	PA	5/31/2005
EPA 625	1,2-Diphenylhydruzine	NELAP	PA	1/26/2006
EPA 625	1,3-Dichlorobenzene (m-Dichlorobenzene)		PA	5/31/2005
EPA 625	1,4-Dichlorobenzone (p-Dichlorobenzone)	NELAP	PA.	5/31/2005
EPA 625	2,3,4,6-Tetmeblorophenol	NELAP	PΛ	5/12/2011
EPA 625	2,3-Dichloroaniline	NELAP	PA	1/26/2006
EPA 625	2,4,5-Trichlurophenal	NELAP	PΛ	1/26/2006
EPA 625	2,4,5-Trichlorotoluene	NELAP	PA	1/22/2010
EPA 625	2,4,6-Trichlorophenol	NELAP	PA	5/31/2005
EPA 625	2,4-Dichlorophenol	NELAP	PA	5/31/2005
EPA 625	2,4-Dinethylphenol	NELAP	PA	5/31/2005 5/31/2005
EPA 625	2,4-Dinitrophenol	NELAP	PA	5/31/2005
EPA 625	2,4-Dinitratoluene (2,4-DNT)	NELAP	PA.	5/31/2005
EPA 625	2,6-Dichlorophenol	NELAP	PΛ	11/3/2006
EPA 625	2,6-Dinitrotoluene (2,6-DNT)	NELAP	PA	5/31/2005
EPA 625	2-Chloronophthalene	NGLAP	PA	5/31/2005
EPA 625	2-Chierophenel	NBLAP	PA	5/31/2005
El'A 625	2-Methyl-4,6-dinitrophenol (4,6-Dinitra-2- methylphenol)	NELAP	PA	5/31/2005
EPA 625	2-Methylnaphthalene	nelap	PA	1/26/2006
EPA 625	2-Methylphenol (o Crosol)	NELAP	PΛ	1/26/2006
EPA 625	2-Nitroaniline	NELAP	PΛ	1/26/2006
EPA 625	2-Nitrophenol	NELAP	PA	5/31/2005
EPA 625	3,3'-Dichlorobenzidine	NELAP	PΛ	5/31/2005
EPA 625	3-Nitroaniline	NELAP	PA	
		1166716	174	1/26/2006



The Poinsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Typo	Primary	Effective Date
EPA 625		4-Bramophenyl phenyl other	NELAP	PΑ	5/31/2005
EPA 625		4-Chloro-3-methylphenol	NBLAP	PΛ	5/31/2005
EPA 625		4-Chlorophiline	NGLAP	PΛ	1/26/2006
EPA 625		4-Chlorophenol	NELAP	PA	1/22/2010
EPA 625		4-Chlorophenyl plienyl other	NELAP	۲A	5/31/2005
EPA 625		4-Methylphenol (p-Cresol)	NELAP	PA	1/26/2006
EPA 625		4-Nitroaniline	NELAP	Α٩	1/26/2006
EPA 625		4-Nitrophenol	NELAP	PA	5/31/2005
EPA 625		Acenaplathene	NELAP	PA.	5/31/2005
EPA 625		Acenaphthylene	NELAP	PA	5/31/2005
EPA 625		Acetophenone	NELAP	PΛ	5/12/2011
EPA 625		Anilina	NBLAP	PA	1/26/2006
EPA 625		Anthracene	NBLAP	PA	5/31/200S
EPA 625		Atrazine	NELAP	PΛ	5/12/2011
EPA 625		Beuzai chlorido	NELAP	<del>ያ</del> ለ	7/12/2006
EPA 625		Benzaldchyde	NELAP	PA	1/22/2010
EPA 625		Benzidine	NELAP	PA	5/31/2005
EPA 625		Benzo[a]anthracene	NELAP	PA	5/31/2005 5/31/2005
EPA 625		Benzofalpyrene	NELAP	PA	5/31/2005 5/31/2005
EPA 625		Benzo[b]fluoranthene	NELAP	PA	
EPA 625		Benzo[ghi]perylene	NELAP	PA	5/31/2005
EPA 625		Benzofk]fluoranthene	NELAP	PA PA	5/31/2005
EPA 625		Benzoic seid	NELAP	PA PA	5/31/2005
EPA 625		Benzyi alcohol	NELAP	PA PA	1/26/2006
EPA 625		Benzyl chloride	NELAP		1/22/2010
EPA 625		Butyl benzyl phtholate (Benzyl butyl	NBLAP	PA	7/12/2005
		phthalate)		PA	5/31/2005
EPA 625		Carbazole	nelap	PÁ	1/26/2006
EPA 625		Chrysene (Benzolo)phenanthrene)	NELAP	PÅ	5/31/2005
EPA 625		Decamethylcyclopentasiloxane	NELAP	PA	1/22/2010
EPA 625		Di-n-butyl philialate	NELAP	PA	5/31/2005
EPA 625		Di-n-octyl phthalato	NELAP	PA	5/31/2005
EPA 625		Dibenzo[a,h]anthracene	NELAP	₽Å	5/31/2005
EPA 625		Dibenzofuran	nelap	PA	1/26/2006
EPA 625		Diethyl phtholate	NELAP	PA	5/31/2005
EPA 625		Directly phthatate	NELAP	PA	5/31/2005
EPA 625		Diphenylamine	NELAP	PΑ	7/12/2006
EPA 625		Fluoranthene	NELAP	PA	5/31/2005
EPA 625		Fluorene	NELAP	PA	5/31/2005
EPA 625		Hexachlorobenzene	NELAP	PA	S/31/2005
EPA 625		Hexachlorobutadiene (1,3- Hexachlorobutadiene)	NELAP	l'A	5/31/2005
BPA 625		Hexachlorocyclopentadiene	NELAP	PA	5/31/2005
EPA 625		Hexachlorocthane	NELAP	PA	5/31/2005
EPA 625		Indenu(1,2,3-cd)pyrene	NELAP	PΑ	5/31/2005
EPA 625		Isophorone	NELAP	PA.	5/31/2005



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DEP Laboratory ID: 09-00131

EPA Lab Codo: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 625		N-Nitrosodi-n-butylamina	NELAP	PΛ	1/26/2006
EPA 625		N-Nitrasadi-n-propylamina	NELAP	PA	5/31/2005
EPA 625		N-Nitrosodiethylamine	NELAP	₽Λ	1/26/2006
EPA 625		N-Nitrosodimethylamine	NELAP	PA	5/31/2005
EPA 625		N-Nitrosodiphenylamine	NELAP	PA	5/31/2005
CPA 625		N-Nitrosopyrrolidine	NELAP	PΛ	1/26/2006
EPA 625		Naphthalene	NBLAP	PA	5/31/2005
EPA 625		Nitrobenzene	NELAP	PA	5/31/2005
EPA 625		Octamethyleyelotetrasiloxane	NELAP	PA	1/22/2010
EPA 62S		Pentachlorobenzene	NELAP	PA	1/26/2006
BPA 625		Pentachtorophenol (PCP)	NELAP	₽Λ	5/31/2005
EPA 625		Phenanibrene	NELAP	PA	5/31/2005
EPA 625		Phenol	NELAP	PA	5/31/2005
EPA 625		Pyrene	Nelap	PA	5/31/2005
EPA 625		Pytidine	NELAP	PA	7/12/2006
EPA 625		alpha-Terpineol	NELAP	PA	1/26/2006
EPA 625		bis(2-Chlorophoxy)methane	NBLAP	PA	5/31/2005
EPA 625		bis(2-Chloroethyl) ether	NELAP	PA	5/31/2005
EPA 625		bis(2-Chloreisopropyl) ether	NELAP	PA	5/31/2005
EPA 625		bis(2-Bihylhexyl) phthalate (DEHP)	nelap	PA	5/31/2005
EPA 625		n-Decauc	NELAP	PA	12/29/2006
EPA 625		n-Octadecane	NELAP	PA	1/26/2006
EPA 625		o-Toluidiae (2-Toluidine, 2-Methylaniline)	NELAP	PA	5/12/2011
EPA 7196	٨	Chromium VI	NELAP	PA	1/26/2006
EPA 7470	٨	Mercury	NELAP	PA	1/26/2006
EPA 8011		1,2,3-Trichleropropane (1,2,3-TCP)	NELAP	PA	6/28/2006
EPA 8011		1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	PA	1/26/2006
EPA 8011		1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	PΑ	1/26/2006
EPA 8015		1,4-Dioxane (1,4-Diethylencoxide)	NELAP	PΛ	6/20/2007
EPA 8015		Dieset-range organics (DRO)	NECAP	PΛ	6/20/2007
EPA 8015		Diethylene glycol	NELAP	PΑ	1/24/2013
EPA 8015		Ethanol	NELAP	PÅ	6/20/2007
EPA 8015		Elhylene glycol	NELAP	PΛ	6/20/2007
EPA 8015		Gasoline-range organics (GRO)	NELAP	PA	6/20/2007
EPA 8015		Isobatyl alcohol (2-Methyl-1-propanol)	NBLAP	PΛ	6/20/2007
EPA 8015		Isopropyl alcohol (2-Propauot)	NGLAP	PA	6/20/2007
EPA 8015		Methanol	NELAP	<b>ቦ</b> ለ	6/20/2007
EPA 8015	B	Nonhalogenated organics by GC/FID	NELAP	PA	6/20/2007
EPA 8015		Propylene glycol	NELAP	PΛ	1/24/2013
EPA 6015		Total petraleum hydrocurbons (TPH)	NELAP	PA	6/20/2007
EPA 8031		4,4'-DDD	NELAP	PA	1/26/2006
EPA 8081		4,4'-DDB	NELAP	PΛ	1/26/2006
EPA 808)		4,4'-DDT	nelap	PA	1/26/2006
El'A 8081		Aldrin (HHON)	nelap	PΑ	1/26/2006



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Issue Date: 03/26/2013





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

BPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	1 Analyte	Accreditation Type	Primary	Effective Date
EPA 8081		Chlordane (tech.)	NELAP	PA	
EPA 8081		Dicidrin	NGLAP	PA	1/26/2006
EPA 8081		Endosulfan I	NELAP	PA	1/26/2006
EPA 8081		Endosulfan II	NELAP	PA	1/26/2006
EPA 8081		Endosulfan sulfate	NELAP	PΛ	1/26/2006
BPA 8081		Endrin	NELAP	PA	1/26/2006
EPA 8081		Endrin aldehydd	NELAP	PA	1/26/2006
EPA 8081		Endria ketone	NELAP	PA	1/26/2006
EPA 8081		Heptachlor	NELAP	PA.	1/26/2006
EPA 8081		Heptachlor epoxide	NELAP	PA.	1/26/2006
PPA 8081		Methaxychlor	NELAP	PA	1/26/2006
EPA 8081		Mirex	NELAP	PA	1/26/2006
EPA.8081		Toxaphene (Chlorinated camphene)	NELAP	PA PA	1/26/2006
EPA 8081		alpha-BHC (alpha-Hexachlorocyclohexano)	NELAP	PA	1/26/2006
EPA 808 [		alpha-Chlordane	NELAP		1/26/2006
EPA 8081		beta-BHC (beta-Hexachlorocycloliexone)	NELAP	PA DA	1/26/2006
5PA 8081		delta-BHC (delta-Hexachlorocyclohexane)	NELAP	PΑ	1/26/2006
EPA 8081		gamma-BHC (Lindanc, gamma-	NELAP	PA	1/26/2006
		Hexachlorocyclohexane)	HILAF	PΛ	1/26/2006
EPA 8081		gamnus-Chiordene	NELAP	PA	1848004
EPA 8082		Aroclor-1016 (PCB-1016)	NELAP	PA	1/26/2006
EPA 8082		Aroclor-1221 (PCB-1221)	NELAP	PA	7/12/2006
EPA 8032		Aroclor-1232 (PCB-1232)	NELAP	PA	7/12/2006
EPA 8082		Aroclor-1242 (PCB-1242)	NELAP	PA	7/12/2006
EPA 8082		Amelor-1248 (PCB-1248)	NELAP	PA	7/12/2006
EPA 8082		Aroeler-1254 (PCB-1254)	NELAP	PA	7/12/2006
EPA 8082		Aroclor-1260 (FCB-1260)	NELAP	PA PA	7/12/2006
EPA 8082		Aroclor-1262 (PCB-1262)	NELAP	PA	7/12/2006
EPA 8082		Acoctor-1268 (FCB-1268)	NELAP	PA	5/12/2011
EPA 8151	A	2,4,5-T	NELAP	PA PA	5/12/2011
EPA 8151	A	2,4,5-TP (Silvex)	NELAP	PA	11/3/2006
EPA 8151	Λ	2,4-D	NELAP		7/12/2006
EPA 8151	Α	2,4-DB (Butexen)	NELAP	PA Pለ	7/12/2006
EPA 8151	Α	Dalapun (2,2-Dichloropropionic seid)	NELAP	PA	11/3/2006
EPA 8151	A	Dicamba	NELAP	PA	11/3/2006
EPA 8151	A	Dichloroprop (Dichlerprop)	NELAP	PA.	11/3/2006
BPA 8151	Λ.	Dinoseh (2-sec-Butyl-4,6-dinitrophonol, DNBP)	NELAP	PA.	11/3/2006 11/3/2006
EPA 8151		Pentachlorophenol (PCP)	NELAP	To 4	
EPA 8260		1,1,1,2-Telrachlorocibane	NELAP	PA	1/24/2013
EPA 8260		i, i, 1-Trichlorgethane	NELAP	PA NA	1/26/2006
EPA 8260		1,1,2,2-Tetrachloroethane	NELAP	PA PA	1/26/2006
EPA 8260		1,1,2-Trichloro-1,2,2-triffuoroethaue (Freon 113)	NELAP	PA PA	1/26/2006 11/3/2006
EPA 8260		1,1,2-Trichloroethane	NELAP	(IA	
EPA 8260		1,1-Dichforoethane	NELAP	ľA PA	1/26/2006
			11mert!	የለ	1/26/2006

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8260		1,1-Dichlorosthene (1,1-Dichloroethylene)	NELAP	PA	1/26/2006
EPA 8260	*	1,1-Dichloropropene	NELAP	PA	1/26/2006
EPA 8260		1,2,3-Trichlarabenzene	NELAP	PA	1/26/2006
BPA 8260		1,2,3-Trichloropropane (1,2,3-TCP)	NELAP	PA	1/26/2006
EPA 8260		1,2,4-Trichlorobenzene	NELAP	PA	1/26/2006
EPA 8260		1,2,4-Trimethylbenzene	NELAP	PA	1/26/2006
EPA 8260		1,2-Dibromo-3-chloropropane (DBCP, Dibromechloropropane)	NELAP	PA	1/26/2006
EPA 8260		1,2-Dibromoethane (EDB, Ethylene dibromide)	NELAP	PÅ	1/26/2006
EPA 8260		1,2-Dichlorobenzene (a-Dichlorobenzene)	NELAP	PA	1/26/2006
EPA 8260		1,2-Dichloroethane	NELAP	PA	1/26/2006
EFA. 8260		1,2-Dichloropropane	NELAP	PΛ	1/26/2006
EPA 8260		1,3,5-Trimethylbenzenc	NELAP	PA	1/26/2006
CPA 8260		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	PA	1/26/2006
EPA 8260		1,3-Dichloropropane	NELAP	PA	1/26/2006
EPA 3260		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	<b>የ</b> ለ	1/26/2006
EPA 8260		1,4-Dioxana (1,4-Diethylencoxide)	NELAP	PA	11/3/2006
EPA 8260		1-Chloro-2-methylpropone	NELAP	PA	12/29/2006
EPA 8260		1-Chlorobutone	NELAP	PA	11/3/2006
EPA 8260		2,2-Dichloropropane	NELAP	PA	1/26/2006
EPA 8260		2-Butanone (Methyl ethyl ketone, MEK)	NELAP	PA	1/26/2006
EPA 8260		2-Chloroethyl vinyl ether	NELAP	PA	1/26/2006
EPA 8260		2-Chlorotoluene	NELAP	PΛ	1/26/2006
EPA 8260		2-Hexagone	NELAP	PΑ	1/26/2006
EPA 8260		4-Chloratoluene	NELAP	PA	1/26/2006
EPA 8260		4-Methyl-2-penianone (MIBK)	NELAP	PΛ	1/26/2006
EPA 8260		Accione	NELAP	PA	1/26/2006
EPA 8260		Accionitrile	NELAP	PA.	4/2/2007
EPA 8260		Acrolein (Propensi)	NELAP	PA	1/26/2006
EPA 8260		Acrylonitrils	NELAP	PA	1/26/2006
EPA 8260		Allyl chloride (3-Chloropropene)	NELAP	PA	11/3/2006
EPA 8260		Benzene	NELAP	PA	1/26/2006
EPA 8260		Bromobenzene	NELAP	PA	1/26/2006
EPA 8260		Bromochloromethane	NELAP	PA	1/26/2006
EPA 8260		Bremodichloronichang	NELAP	PA	1/26/2006
EPA 8260		Broinoform	NELAP	PA	1/26/2006
EPA 8260		Carbon disulfide	NELAP	PΛ	1/26/2006
EPA 8260		Carbon tetrachlorida	NELAP	PA	1/26/2006
EPA 8260		Chlorobenzene	NELAP	PA	
EPA 8260		Chlorodifluoromethane (Freon 22)	NELAP	PA	1/26/2006 12/29/2006
EPA 8260		Chloroethane	NELAP	PA	
EPA 8260		Chloroform	NELAP	PA	1/26/2006
EPA 8260		Chloroprene (2-Chloro-1,3-butadiene)	NELAP	PA	1/26/2006
EPA 8260		Cyclohexane	NELAP	PA PA	11/3/2006
EPA 8260		Dibromochloromethane	NELAP	PA	1/26/2006 1/26/2006



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Issuo Dato: 03/26/2013





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effectivo Date
EPA 8260		Dibromomethane	NELAP	PΑ	1/26/2006
EPA 8260		Dichlorodifluoromethane (Freun 12)	NELAP	PA	1/26/2006
EPA 8260		Disopropyl ether (DIPE)	NELAP	ΡÁ	11/3/2006
EPA 8260		Ethanol	NELAP	PA	11/3/2006
EPA 8260		Ethyl methacrylate	NELAP	PA	4/2/2007
EPA 8260		Ethylbenzene	NELAP	PΛ	1/26/2006
EPA 8260		Hexachlorobuladiene (1,3- Hexachlorobuladiene)	NELAP	PA	1/26/2006
EPA 8260		Hexachlaroethane	NELAP	PA.	12/3/2007
BPA 8260		Indomethane (Methyl iodide)	NELAP	PA	1/26/2006
EPA 8260		Isobutyl sicoliol (2-Methyl-1-propanol)	NELAP	PΑ	4/2/2007
EPA 8260		Isopropylbenzene (Cumene)	NELAP	PA	1/26/2006
EPA 8260		Methacrylonitrilo	NELAP	PΑ	4/2/2007
EPA 8260		Methyl scetato	NELAP	ľA	1/22/2010
EPA 8260		Methyl bremide (Bromomethane)	NELAP	PA	1/26/2006
EPA 8260		Methyl chloride (Chloromethane)	NELAP	PA .	1/26/2006
EPA 8260		Methyl tert-buryl citier (MTBE)	NELAP	PA	1/26/2006
EPA 8260		Methyloyclohexane	NELAP	PA	1/19/2011
EPA 8260		Methylene chloride (Dichloromethane)	NELAP	PΑ	1/26/2006
EPA 8260		Methylmethacrylate	NELAP	PA	4/2/2007
EPA 8260		Naphthalene	NELAP	PA	1/26/2006
EPA 8260		Nitrobeazene	NELAP	PA	12/3/2007
EPA 8260		Pentachloroethano	NELAP	PÁ	4/2/2007
EPA 8260		Propionitrile (Ethyl cyanide)	NELAP	PÁ	4/2/2007
EPA 8260		Styrene	NELAP	PA	1/26/2006
EPA 8260		Tetrachloroethene (PCE, Perchloroethylene)	NELAP	PA	1/26/2006
EPA 8260		Tetrahydrofuran (THP)	NELAP	PA	11/3/2006
EPA 8260		Toluene	NELAP	PΛ	1/26/2006
EPA 8260		Trichloroetheno (ICE, Trichloroethylene)	NELAP	₽A	1/26/2006
EPA 8260		Trichlerofluoromethane (Freen 11)	NELAP	PA	1/26/2005
EPA 8260	В	VOCs by GC/MS	NELAP	PΑ	10/7/2010
EPA 8260	C	VOCa by GC/MS	NELAP	PA	1/23/2009
EPA 8260		Vinyl acetata	NELAP	PA	1/26/2006
EPA 8260		Vinyl chloride (Chlorouthene)	NELAP	<b>P</b> ሊ	1/26/2006
EPA 8260		Xylones, total	NELAP	PA	1/26/2006
EPA 8260		cis-1,2-Dichtoroethene	NELAP	PA	1/26/2006
EPA 8260		cis-1,3 Dichloropropent	NELAP	PA	1/26/2006
CPA 8260		cis-1,4-Dichloro-2-butene	NELAP	PA	4/2/2007
EPA 8260		n-Butylbenzene	NELAP	PA	1/26/2006
EPA 8260		n-Propythenzene	NELAP	PΛ	1/26/2006
EPA 8260		o-Xylene	NELAP	PA	7/12/2006
EPA 8260		p-Isopropyltoluene (4-Isopropyltoluene)	NELAP	PΛ	1/26/2006
EPA 8260		sec-Bulylbenzene	NELAP	PÀ	1/26/2006
EPA 8260		test-Amyl other (TABE)	NELAP	PA	11/3/2006
EPA 8260		tert-Amyl methyl ether (TAME)	NELAP	PΛ	12/21/2006
EPA 8260		tert-Butyl alcohol (2-Methyl-2-propanol)	NBLAP	PA	1/26/2006

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

The state of the same of the same of the same of

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8260		tert-Butyl ethyl ether	NGLAP	PΛ	11/3/2006
EPA 8260		tert-Butylbenzeno	NELAP	PA	1/26/2006
IPA 8260		trans-1,2-Dichloroethene	NELAP	<b>የ</b> ለ	1/26/2006
EPA 8260		trans-1,3-Dichloropropene	nelap	PA	1/26/2006
EPA 8260		traus-1,4-Dichloro-2-butene	NELAP	PA	1/26/2006
EPA 8270		1,1'-Biphenyl (Biphenyl, Lamonene)	NELAP	PA	1/19/2011
EPA 8270		1,2,3,4-Telrachlorobenzene	NELAP	ቦለ	11/3/2006
EPA 8270		1,2,4,5-Tetrachlorobenzene	NBLAP	PA	1/26/2006
EPA 8270		1,2,4-Trichlorobenzene	NELAP	PΑ	1/26/2006
EPA 8270		1,2-Dichlorohenzene (o-Dichlorobenzene)	NBLAP	PA	1/26/2006
EPA 8270		I,2-Diphenylhydrazine	NELAP	PA	1/26/2006
EPA 8270		1,1-Dichlorobenzene (un-Dichlorobenzene)	NELAP	PΑ	1/26/2006
EPA 8270		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	PA	1/26/2006
EPA 8270		2,3,4,6-Tetrachlorophenol	NELAP	PA	5/12/2011
EPA 8270		2,3-Dichtoreaniline	NELAP	PΛ	1/19/2011
EPA 8270		2,4,5-Trichlorophenol	NELAP	PÅ	1/26/2006
EFA 8270		2,4,5-Trieldototoluenc	NELAP	PA	1/19/2011
EPA 8270		2,4,6-Trichlorophenol	NELAP	PA	1/26/2006
EPA 8270		2,4-Dichlorophenol	NELAP	PΛ	1/26/2006
EPA 8270		2,4-Dirnethylphenol	NELAP	PA	1/26/2006
EPA 8270		2,4-Dinitrophenol	NELAP	PA	1/26/2006
EPA 8270		2,4-Dinitratoluene (2,4-DNT)	NELAP	PΑ	1/26/2006
EPA 8270		2,6-Dichlorophenol	NELAP	PΑ,	1/26/2006
EPA 8270		2,6-Dinitrotoluene (2,6-DNT)	NELAP	PA	1/26/2006
EPA 8270		2-Acetylaminofluorene	NELAP	PΛ	5/5/2009
EPA 8270		2-Chloronsphthalene	nelap	PΑ	1/26/2006
EPA 8270		2-Chlorophenol	NELAP	PA	1/26/2006
EPA 8270		2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2- methylphenol)	NELAP	PA	1/26/2006
RPA 8270		2-Methylnaphthalene	NELAP	PA	1/26/2006
EPA 8270		2-Methylphenul (u-Cresol)	NELAP	PА	1/26/2006
EPA 8270		2-Naphthylamine (beta-Naphthylamine)	NELAP	PA	5/5/2009
EPA 8270		2-Nifropuiline	NELAP	PA	1/26/2006
EPA 8270		2-Nitrophenol	NELAP	PA	1/26/2006
EPA 8270		3,3'-Dichlorobenzidine	NBLAP	PA	1/26/2006
EPA 8270		3,3'-Dimethylbenzidine	NELAP	PA.	5/5/2009
EPA 8270		3-Methylphenol (m-Cresol)	NELAP	PA	1/26/2006
EPA 8270		3-Nitroaniline	NELAP	PA	1/26/2006
EPA 8270		4-Aminobiphenyl	NELAP	PA	S/S/2009
EPA 8270		4-Bromophenyl phenyl eilier	NELAP	ľΑ	1/26/2006
EPA 8270		4-Chloro-3-methylphenol	NELAP	PΑ	1/26/2006
EPA 8270		4-Chloroaniline	NELAP	PA	1/26/2006
EPA 8270		4-Chlorophenol	NELAP	PΑ	1/19/2011
EPA 8270		4-Chlorophenyl phenyl ether	NELAP	PA	1/26/2006
EPA 8270		4-Dimethylaminoazobenzene (Dimethylaminoazobenzene)	Nijlap	PA	5/5/2009



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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270		4-Methylphenol (p-Cresol)	NELAP	PΛ	1/26/2006
EPA 8270		4-Nitrosniline	NELAP	PA	1/25/2006
EPA 8270		4-Nitrophenol	NELAP	PA	1/26/2006
EPA 8270		5-Nitro-o-toluidine	NELAP	PA	5/5/2009
EPA 8270		Acenaphthene	NELAP	PA	1/26/2006
EPA 8270		Acenaphthylena	NELAP	PA	1/26/2006
EPA 8270		Acetophenone	NELAT	PΑ	1/19/2011
EPA. 8270		Aniline	NELAP	PA	1/26/2006
EPA 8270		Anthracens	NELAP	PA	1/26/2006
EPA 8270		Atrazino	NELAP	PA	1/19/2011
EPA 8270		Benzal chloride	NELAP	PA	6/28/2006
EPA 8270		Benzaldehyde	NELAP	PA	1/19/2011
EPA 8270		Henzidine	NELAP	PÅ	1/26/2006
EPA 8270		Benzu[a]anthracene	NELAP	PA	1/26/2006
EPA 8270		Benzo[a]pyrene	NELAP	PA	1/26/2006
EPA 8270		Benzo[b]fluoranthene	NELAP	PA	1/26/2006
EPA 8270		Benzo[ghi]perylene	NELAP	PA	1/26/2006
EPA 8270		Benzo[k](hioranthene	NELAP	PA	1/26/2006
EPA 8270		Benzaie acid	NELAP	PA	1/26/2006
EPA 8270		Benzyl alcohol	NELAP	PA	1/26/2006
EPA 8270		Benzyl butyl phthalate (Butyl benzyl phthalate)	NELAP	PA	1/26/2006
EPA 8270		Benzyl chloride	NELAP	PA.	6/28/2006
6PA 8270		Carbazole	NELAP	PA	1/26/2006
EPA 8270	1	Chrysene (Benzo[a]phenanthrene)	NELAP	ቦለ	1/26/2006
EPA 8270		Decamethyleyclopentasiloxane	NELAP	PA	1/19/2011
EPA 8270		Di-n-butyl phtholate	NELAP	PA	1/26/2006
EPA 8270		Di-n-octyl phthalate	NELAP	PA	1/26/2006
BPA 8270		Dibenzo[u,h]anthracene	NELAP	PΛ	1/26/2006
EPA 8270		Dibenzofuran	NELAP	PA	1/26/2006
EPA 8270		Diethyl phthalate	NELAP	PΑ	1/26/2006
EPA 8270		Directly I phthalate	NELAP	PA	1/26/2006
EPA 8270		Diphenylamine	NELAP	PA	1/26/2006
EPA 8270		Fluoranthene	NELAP	PΛ	1/26/2006
EPA 8270		Phorene	NELAP	PΛ	1/26/2006
EPA 8270		Hexachlorobenzene	NELAP	PA	1/26/2006
EPA 8270		Hexachlorobutadieus (1,3 - Hexachlorobutadienė)	NELAP	PA	1/26/2006
EPA 8270		Hexachlorocyclopentadiene	NELAP	PA	1/26/2006
EPA 8270		Hexachloroethane	NELAP	PA	1/26/2006
EPA 8270		Indeno(1,2,3-cd)pyrene	NELAP	ΓA	1/26/2006
EPA 8270		Isophorone	nelap	PA	1/26/2006
EPA 8270		Methyl parathion (Parathion, methyl)	NELAP	PΑ	1/19/2011
EPA 8270		N-Nitrosodi-n-butylamine	NBLAP	PΑ	1/26/2006
EPA 8270		N-Nilrosodi-n-propylamine	nelap	PΑ	1/26/2006
EPA 8270		N-Nitrosodiathylamine	NELAP	PA	1/26/2006



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Page 20 of 32 www.dep.state.pa.us fpsue Date: 03/26/2043





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270		N-Nitrosodimothylamine	NELAP	PA	1/26/2006
EPA 8270		N-Nitrosodiphenylamine	NELAP	PA	1/26/2006
EPA 8270		N-Nitrosomethylcthylamine	NELAP	PA	\$/5/2009
EPA 8270		N-Nitrosomorpholine	NELAP	PA	5/5/2009
EPA 8270		N-Nitrosopiperidine	NELAP	PÅ	5/5/2009
EPA 8270		N-Nitrosopyrrolidine	NELAP	PA	1/26/2006
EPA 8270		Naphthalena	NELAP	₽A	1/26/2006
EPA 8270		Nitrobenzene	NELAP	fА	1/26/2006
EPA 8270		Octomethyleyelopeniasiloxane	NELAP	РA	1/19/2011
EPA 8270		Pentachlorobenzene	NELAP	PA	1/26/2006
BPA 8270		Pentschlorophenol (PCP)	NELAP	PA	1/26/2006
EPA 8270		Plienanthrene	NELAP	PΑ	1/26/2006
EPA 8270		Phenol	NELAP	PΛ	1/26/2006
EPA 8270	•	Pyrenc	NELAP	PA	1/26/2006
EPA 8270		Pyridine	NELAP	PΛ	1/26/2006
EFA 8270		Resorcinol (1.3-Dihydroxybenzene)	NELAP	PA	1/19/2011
EPA 8270	D	SOCs by GC/MS	NELAP	PA	10/5/2010
EPA 8270	C	SOCs by GC/MS	NELAP	ľΑ	10/7/2010
EPA 8270		alpha-Terpineol	NELAP	PA	6/28/2006
EPA 8270		bis(2-Chloroethoxy)methana	NELAP	PA	1/26/2006
EPA 8270		bis(2-Chloroethyl) ether	NELAP	PA	1/26/2006
EPA 8270		bis(2-Chloroisopropyl) ether	NELAP	PΛ	1/26/2006
EPA 8270		bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	PΑ	1/26/2006
EPA 8270		n-Decane	NELAP	PΑ	1/19/2011
EPA 8270		n-Octadecone	NELAP	PA	1/19/2011
EPA 8270		o-Toluidine (Z-Toluidine, 2-Methylaniline)	NELAP	PΑ	1/19/2011
EPA 8270 STM		2-Methylnaphthalene	NELAP	PA	1/22/2010
EPA 8270 SIM		Accaphthene	NELAP	PÁ	4/24/2008
EPA 8270 SIM		Acenaphihylene	NELAP	PA	4/24/2008
EPA 8270 SIM		Anthracene	NELAP	PA	4/24/2008
EPA 8270 SIM		Benzolafanthracens	NELAP	PA	11/7/2012
EPA 8270 SIM		Beizo[a]pyrene	NELAP	PA	4/24/2008
EPA 8270 SIM		Benzolb)fluoranthene	NELAP	PA	4/24/2008
EPA 8270 SIM		Benzo[ghi]perylens	NELAP	PA	4/24/2008
EPA 8270 SIM		Benzo[k]fluoranthene	NELAP	PA	4/24/2008
EPA 8270 SIM		Chrysene (Benzefalphenanthiene)	NELAP	PΛ	4/24/2008
EPA 8270 SIM		Dibenzo[a,k]anthracene	NELAP	PA	4/24/2008
<b>BPA 8270 SIM</b>		Fluoranthene	NELAP	PA	4/24/2008
EPA 8270 SIM		Pluorene	NELAP	PA	4/24/2008
EPA 8270 SIM		Hexachiorobenzone	NELAP	PA	1/22/2010
EPA 8270 SIM		Hexachlorobutadiene (1,3- Hexachlorobutadiene)	NELAP	PA	1/22/2010
EPA 8270 SIM		Indeno(1,2,3-ed)pyrene	NELAP	PΑ	4/24/2008
EPA 8270 SIM		N-Nitrosodimethylamine	NELAP	PA	1/22/2010
EPA \$270 SIM		Naphthaleno	NELAP	PA	4/24/2008
EPA 8270 SIM		Pentachlocophenol (PCP)	NELÁP	PA	1/22/2010

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270 SIM		Phonantisrana	NELAP	PA.	4/24/2008
EPA 8270 SIM		Pyrane	NELAP	PΛ	4/24/2008
EPA 9010		Amenable cyanido	NELAP	PΛ	1/26/2006
EPA 9010		Total cyanide	NELAP	PA	1/26/2006
EPA 9014		Cyenide	Nelap	PΛ	1/26/2006
EPA 9020		Total organic halides (TOX)	NELAP	PA	1/26/2006
EPA 9023		Extractable organic infides (EOX)	NELAP	₽A	6/20/2007
EPA 9040		βH	NELAP	₽A	1/26/2006
EPA 9050		Conductivity	NELAP	PA	7/28/2006
EPA 9056	A	Bromide	NELAP	PA	1/26/2006
EPA 9056	Α	Chloride	NELAP	PA	1/26/2006
EPA 9056	٨	Fluorido	NELAP	PA	1/26/2006
EPA 9056	A	Nitrate as N	NELAP	PA	1/26/2006
EPA 9056	A	Nitrite es N	NELAP	PA	1/26/2006
EPA 9056	A	Sulfate	NELAP	PA	1/26/2006
EPA 9056	٨	Total nitrate-nitrito	NBCAP	PA	7/12/2006
EPA 9060		Total organic curbon (TOC)	NELAP	PΛ	1/26/2006
EPA 9065		Total phenolics	NELAP	PA	1/26/2006
HACH 8000		Chemical oxygen demand (COD)	NELAP	PΑ	6/28/2006
NJ-OQA-QAM-025, Rev 6		Petroleum organics	NELAP	PΛ	7/18/2007
PA-DEP 3686		Ethane	NELAP	PA	3/26/2013
PA-DEP 3686		Ethene	NELAP	PA	3/26/2013
PA-DEP 3686		Methane	NELAP	₽Á	3/26/2013
SM 2120 B		Color	NELAP	PA	11/3/2006
SM 2310 B		Acidity as CaCO3	NELAP	PA	5/31/2005
SM 2320 B		Alkalinity as CaCO3	NELAP	PA.	5/31/2005
SM 2510 B		Conductivity	NELAP	PÅ	5/31/2005
SM 2520 B		Selinity	NELAP	PΛ	6/28/2006
SM 2540 B		Residue, total	NELAP	PÅ	S/31/2005
SM 2540 C		Residue, filterable (TDS)	NELAP	PΛ	5/31/2005
SM 2540 D		Residue, nonfilterable (TSS)	NELAP	PA	5/31/2005
SM 2540 E		Volatile suspended solids	NELAP	PA.	1/27/2012
SM 2540 F		Residue, settleable	NELAP	PA.	6/20/2007
SM 2550 B		Temperature, deg. C	NELAP	PA	6/28/2006
SM 2580B		Oxidation-reduction potential	NELAP	PΛ	1/27/2012
SM 2710 F		Specific gravity	NELAP	PA	1/27/2012
SM 3113 B		Antimony	NELAP	PA	5/31/2005
SM 3113 B		Assenic	NELAP	PΛ	5/3 1/2005
SM 3113 B		Cadmium	NELAP	PA	5/31/2005
SM 3113 B		Lead	NELAP	PΛ	5/31/2005
SM 3113 B		Sclenium	NELAP	PA	11/3/2006
SM 3500-Cr D	18/19	Chromium VI	NELAP	PA	\$/31/2005
SM 4500-CN- C/E		Cyanide	NBLAP	PA	5/31/2005
SM 4500-CN- G		Amenable cyanide	NELAP	PΛ	\$/31/2005
SM 4500-C1 F		Residual free chlorine	NELAP	PΛ	5/31/2005

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Non-Potable Water

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
SM 4500-Cl G		Residual fine chlorine	NELAP	PA	5/31/2005
SM 4500-11+ B		pH	NELAP	PA	12/29/2006
SM 4500-NII3 B		Animonia distillation	NELAP	PΛ	7/12/2006
SM 4500-NH3 C		Ammonia as N	NELAP	PA	10/6/2009
SM 4500-NH3 D		Ammonia as N	NELAP	PA	12/21/2006
SM 4500-NO2- B		Ninite as N	NGLAP	PΛ	5/31/2005
SM 4500-NO3- F		Total aitrate-nitrite	NELAP	PA	5/31/2005
SM 4500-O C		Oxygen (dissolved)	NELAP	PA	5/31/2005
SM 4500-O G		Oxygen (dissolved)	NELAP	PA	5/31/2005
SM 4500-P B		Phosphoras, total	NELAP	PA	12/29/2006
SM 4500-P E		Orthophosphate as P	NELAP	PA	5/31/2005
SM 4500-P E		Phosphorus, lotal	NELAP	PΛ	12/29/2006
SM 4500-P F		Orthophosphate as P	NELAP	PA	5/12/2011
SM 4500-S D		Sulfide	NELAP	ľA	12/29/2006
SM 4500-SO3 B		Sulfite, SO3	NELAP	PA	10/2/2009
SM 5210 B		Biochemical oxygen demand (BOD)	NELAP	PA	5/31/2005
SM 5210 B		Carbonaccous BOD (CBOD)	NELAP	PΛ	5/31/2005
SM 5310 C		Total organic carbon (TOC)	NELAP	PA	8/14/2007
SM 5540 C		Surfactants as MBAS	NELAP	PA	5/31/2005
SM 6640 B		2,4,5-Γ	NELAP	PA.	5/31/2005
SM 6640 B		2,4,5-TP (Silvex)	NELAP	PA	5/31/2005
SM 6640 B		2,4-D	NELAP	PA	- 5/31/2005
SM 9213 D		E. coli (Enumeration)	NELAP	PA	6/20/2007
SM 9213 E		Pseudomonas acruginosa (Enumeration)	NELAP	PΛ	7/27/2006
SM 9215 B		Heterotrophic bacteria (Enumeration)	NELAP	PA	7/27/2006
SM 9221 B		Total coliform (Emmeration)	NELAP	PA	- 5/31/200S
SM 9221 C/E		Pecal coliform (Enumeration)	NELAP	PÅ.	7/27/2006
SM 9222 B		Total coliform (Enumeration)	NELAP	PA	5/31/2005
\$M:9222 D		Fecal coliform (Enumeration)	NELAP	PA	7/27/2006
SM 9230 C		Enterococci (Enumeration)	NELAP	PA	5/31/2005
SM 9230 C		Feeal streptococci (Enumeration)	NELAP	PA	7/27/2006
SM 9260 D + EPA 625/R- 92/013 Appendix P		Salmonolla (Enumeration)	NELAP	PA	7/27/2006
SOP (00131) QC0621		Multiple extraction procedure	NELAP	PA	9/30/2009

#### Matrix: Solid and Chemical Materials

Method	Revision Analyte	Accreditation Type	Primary	Effective Date
ASTM D3987-92	Water leach	NELAP	PA	10/2/2009
EPA (010	fgnitability	NELAP	PA	5/31/2005
EPA 1030	Ignitability	NELAP	PA	5/31/2005
EPA 1311	Toxicity characteristic leaching procedure (TCLP)	NELAP	PA	5/31/2005
EPA 1312	Synthetic precipitation leaching procedure	NELAP	PA	5/31/2005

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The Pennsylvania Department of Environmental Protection Laboratory Accreditation Program is a NELAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DBP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

#### Matrix: Solid and Chemical Materials

Per	Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
FPA 3050   B	EPA 3005	٨	Preconcentration under acid	NELAP	PA	6/20/2007
EPA 3051	UPA 3010	A	Hot plate acid digestion (HNO3 + HCI)	NELAP	PA	6/20/2007
HCI	EPA 3050	В	Acid digestion of solids	NELAP	PA	5/31/2005
EPA 3350B1	EPA 3051	٨		NELAP	PA	3/26/2013
EPA 351.2   K_jeldahl nitrogen, total (TKN)   NELAP   PA   SJ12201     EPA 3545   Pressuized fluid extraction (PFE)   NELAP   PA   SJ12005     EPA 3550   B   Ultrasonic extraction (PFE)   NELAP   PA   SJ12005     EPA 3580   A   Waste dilution   NELAP   PA   SJ12005     EPA 3580   B   Plarisil cleanup   NELAP   PA   SJ12005     EPA 3660   B   Sulfur cleanup   NELAP   PA   SJ12005     EPA 3660   B   Sulfur cleanup   NELAP   PA   SJ12005     EPA 3660   B   Sulfur cleanup   NELAP   PA   SJ12005     EPA 3661   A   Sulfuria exict/permanganate clean-up   NELAP   PA   SJ12005     EPA 5035   Closed-system purge-and-trup (inpreserved)   NELAP   PA   SJ12005     EPA 5035   Closed-system purge-and-trup (inpreserved)   NELAP   PA   SJ12005     EPA 6010   Aluminum   NELAP   PA   SJ12005     EPA 6010   Aluminum   NELAP   PA   SJ12005     EPA 6010   Aluminum   NELAP   PA   SJ12005     EPA 6010   Barium   NELAP   PA   SJ12005     EPA 6010   Barium   NELAP   PA   SJ12005     EPA 6010   Barium   NELAP   PA   SJ12005     EPA 6010   Barium   NELAP   PA   SJ12005     EPA 6010   Beryllium   NELAP   PA   SJ12005     EPA 6010   Codminum   NELAP   PA   SJ1200	EPA 3060	٨	Alkaline digestion of Cr(VI)	NELAP	PA	5/31/2005
EPA 3345         Pressurized fluid extraction (PFE)         NELAP         PA         \$3/1/2005           EPA 3550         B         Ultrasonic extraction         NELAP         PA         \$3/1/2005           EPA 3580         A         Waste dilution         NELAP         PA         \$3/1/2005           EPA 3620         B         Plorisi Icleanup         NELAP         PA         \$3/1/2005           EPA 3660         B         Suitur cleanup         NELAP         PA         \$5/1/2005           EPA 3665         A         Suitur cleanup         NELAP         PA         \$5/1/2005           EPA 5035         Closed-system purge-and-trup (inclinate)         NELAP         PA         \$5/1/2005           EPA 5035         Closed-system purge-and-trup (inpreserved)         NELAP         PA         \$5/1/2005           EPA 6010         Altunium         NELAP         PA         \$5/1/2005           EPA 6010         Autimony         NELAP         PA         \$5/1/2005           EPA 6010         Barium         NELAP         PA         \$5/1/2005           EPA 6010         Barium         NELAP         PA         \$5/1/2005           EPA 6010         Beryllium         NELAP         PA         \$5/1/2005 <td>EPA 3500B</td> <td></td> <td>Organics extraction and sample preparation</td> <td>NELAP</td> <td>PA</td> <td>1/26/2006</td>	EPA 3500B		Organics extraction and sample preparation	NELAP	PA	1/26/2006
EPA 3550         B         Ultrasmoil extraction         NELAP         PA         \$531/2005           EPA 3580         A         Waste dilution         NELAP         PA         \$531/2005           EPA 3600         B         Pforisil cleanup         NELAP         PA         \$531/2005           EPA 3660         B         Sulfur cleanup         NELAP         PA         \$531/2005           EPA 5635         A         Sulfur cleanup         NELAP         PA         \$531/2005           EPA 5035         Closed-system purge-and-trap (bisulfate option)         NELAP         PA         \$531/2005           EPA 5035         Closed-system purge-and-trap (inpreserved)         NELAP         PA         \$531/2005           EPA 6010         Alutinium         NELAP         PA         \$531/2005           EPA 6010         Alutinium         NELAP         PA         \$531/2005           EPA 6010         Artenic         NELAP         PA         \$531/2005           EPA 6010         Barium         NELAP         PA         \$531/2005           EPA 6010         Beryllium         NELAP         PA         \$531/2005           EPA 6010         Cadmium         NELAP         PA         \$531/2005      <	BPA 351.2		Kjeldahl nitrogen, total (TKN)	NELAP	PA	5/12/2011
EPA 3580         A         Waste dilution         MELAP         PA         5/31/2005           BPA 3620         B         Plorisit cleamp         NELAP         PA         5/31/2005           EPA 3660         B         Sulfur deamp         NELAP         PA         5/31/2005           EPA 3665         A         Sulfur ack/lyermanganate clean-up         NELAP         PA         5/31/2005           EPA 5035         Closed-system purge-and-trup (bisulfate opino)         NELAP         PA         5/31/2005           EPA 5035         Closed-system purge-and-trup (methanol opinon)         NELAP         PA         5/31/2005           EPA 6010         Aluminum         NELAP         PA         1/26/2006           EPA 6010         Aluminum         NELAP         PA         1/26/2006           EPA 6010         Arsenic         NELAP         PA         5/31/2005           EPA 6010         Barium         NELAP         PA         5/31/2005           EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Boron         NELAP         PA         5/31/2005           EPA 6010         Colatium         NELAP         PA         5/31/2005           E	EPA 3545		Pressurized fluid extraction (PFE)	NELAP	PA	5/31/2005
EPA 3620   B	EPA 3550	В	Ultrasonic extraction	NELAP	PΛ	5/31/2005
EPA 3660         B         Sulfur cleanup         NELAP         PA         5/31/2005           EPA 3665         A         Sulfur a cid/permanganale clean-up         NELAP         PA         5/31/2005           EPA 5035         Closed-system purge-and-trap (bisulfate option)         NELAP         PA         5/31/2005           EPA 5035         Clased-system purge-and-trap (inspreserved)         NELAP         PA         5/31/2005           EPA 6010         Atluninum         NELAP         PA         1/26/2006           EPA 6010         Autimony         NELAP         PA         5/31/2005           EPA 6010         Atsenic         NELAP         PA         5/31/2005           EPA 6010         Barium         NELAP         PA         5/31/2005           EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Colaim         NELAP         PA         5/31/2005           EPA 6010         Copper <t< td=""><td>EPA 3580</td><td>٨</td><td>Waste dilution</td><td>NELAP</td><td>ľΑ</td><td>5/31/2005</td></t<>	EPA 3580	٨	Waste dilution	NELAP	ľΑ	5/31/2005
EPA 3665         A         Sulfuric acid/permanganale clean-up         NBLAP         PA         5/31/2005           EPA 5035         Closed-system purge-and-trap (osialists option)         NELAP         PA         \$/31/2005           EPA 5035         Clased-system purge-and-trap (methanol option)         NELAP         PA         \$/31/2005           EPA 8035         Closed-system purge-and-trap (impreserved)         NELAP         PA         \$/31/2005           EPA 6010         Aluminum         NELAP         PA         \$/31/2005           EPA 6010         Aluminum         NELAP         PA         \$/31/2005           EPA 6010         Arenic         NELAP         PA         \$/31/2005           EPA 6010         Barium         NELAP         PA         \$/31/2005           EPA 6010         Beryllium         NELAP         PA         \$/31/2005           EPA 6010         Beryllium         NELAP         PA         \$/31/2005           EPA 6010         Codaminum         NELAP         PA         \$/31/2005           EPA 6010         Coleium         NELAP         PA         \$/31/2005           EPA 6010         Colopat         NELAP         PA         \$/31/2005           EPA 6010         Lead	BPA 3620	В	Plorisil cleanup	NELAP	Aq	5/31/2005
EPA 3665         A         Sulfurie acid/permanganale clean-up         NELAP         PA         \$51/2005           EPA 5035         Closed-system purge-and-trup (bisulfats option)         NELAP         PA         \$731/2005           EPA 5035         Closed-system purge-and-trup (methanol option)         NELAP         PA         \$731/2005           EPA 5035         Closed-system purge-and-trup (inpreserved)         NELAP         PA         \$51/2005           EPA 6010         Aluninum         NELAP         PA         \$17/2005           EPA 6010         Antimony         NELAP         PA         \$731/2005           EPA 6010         Antimony         NELAP         PA         \$731/2005           EPA 6010         Antimony         NELAP         PA         \$731/2005           EPA 6010         Beraium         NELAP         PA         \$731/2005           EPA 6010         Beryllium         NELAP         PA         \$731/2005           EPA 6010         Boron         NELAP         PA         \$731/2005           EPA 6010         Codamium         NELAP         PA         \$731/2005           EPA 6010         Chromfum         NELAP         PA         \$731/2005           EPA 6010         Copper	EPA 3660	В	Sulfur cleanup	NELAP	PΛ	5/31/2005
EPA 5035   Clased-system purge-and-trap (bisulfate option)	EPA 3665	۸	Sulfuric acid/permanganate clean-up	NELAP	PA	
Option   O	EPA 5035			NELAP	PA	
EPA 6010         Aluminum         NELAP         PA         1/26/2006           BPA 6010         Antimony         NELAP         PA         5/31/2005           EPA 6010         Barium         NELAP         PA         5/31/2005           EPA 6010         Barium         NELAP         PA         5/31/2005           EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Boron         NELAP         PA         5/31/2005           EPA 6010         Caduium         NELAP         PA         5/31/2005           EPA 6010         Caduium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Copper         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Melals by ICP/AES         NE	EPA 5035			NELAP	PA	5/31/2005
BPA 6010         Antimony         NELAP         PA         5/31/2005           EPA 6010         Arsenic         MELAP         PA         5/31/2005           EPA 6010         Barium         NELAP         PA         5/31/2005           EPA 6010         Born         NELAP         PA         5/31/2005           EPA 6010         Born         NELAP         PA         5/31/2005           EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Copper         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Metals by ICP/AES         NELAP	EPA 5035		Closed-system purge-and-trap (impreserved)	NELAP	ľA	5/31/2005
EPA 6010         Arsenic         NELAP         PA         5/31/2005           EPA 6010         Barium         NELAP         PA         5/31/2005           EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Bornn         NELAP         PA         5/31/2005           EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Chromhum         NELAP         PA         5/31/2005           EPA 6010         Chromhum         NELAP         PA         5/31/2005           EPA 6010         Coppet         NELAP         PA         5/31/2005           EPA 6010         Tron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Magnese         NELAP         PA         5/31/2005           EPA 6010         B         Melals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         Molybdenun </td <td>EPA 6010</td> <td></td> <td>Alujoinum</td> <td>NELAP</td> <td>PA</td> <td>1/26/2006</td>	EPA 6010		Alujoinum	NELAP	PA	1/26/2006
EPA 6010         Barium         NELAP         PA         5/31/2005           EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Boron         NELAP         PA         5/31/2005           HPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Coper         NELAP         PA         5/31/2005           EPA 6010         Copper         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Magnese         NELAP         PA         5/31/2005           EPA 6010         Manguese         NELAP         PA         1/12/2011           EPA 6010         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         Molybdenum         NELA	EPA 6010		Antimony	NELAP	PΛ	5/31/2005
EPA 6010         Beryllium         NELAP         PA         5/31/2005           EPA 6010         Borna         NELAP         PA         5/31/2005           EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Colcium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Cobalt         NELAP         PA         5/31/2005           EPA 6010         Copper         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magossium         NELAP         PA         5/31/2005           EPA 6010         Monganese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         5/31/2005           EPA 6010	EPA 6010		Arsenic	NELAP	PΛ	5/31/2005
EPA 6010         Borna         NELAP         PA         5/31/2005           HPA 6010         Cadminn         NELAP         PA         5/31/2005           HPA 6010         Calcium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Coyalt         NELAP         PA         5/31/2005           EPA 6010         Ton         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Mangenese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         Molybdenum         NELAP         PA         1/19/2012           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium	EPA 6010		Barium	NELAP	PΛ	5/31/2005
EPA 6010         Bornn         NELAP         PA         5/31/2005           EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Calcium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Copalt         NELAP         PA         5/31/2005           EPA 6010         Tron         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Mangenese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         Molybdenum         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Solonium	EPA 6010		Beryllium	NELAP	PA	5/31/2005
EPA 6010         Cadmium         NELAP         PA         5/31/2005           EPA 6010         Colcium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Cobalt         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Manguese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenun         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA	EPA 6010		Born	NELAP	ľA	
EPA 6010         Calcium         NELAP         PA         5/31/2005           EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Cobalt         NELAP         PA         5/31/2005           EPA 6010         Copper         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Mals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         Molybdenum         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Sclonium         NELAP         PA         5/31/2005           <	EPA 6010		Cadmiun	NELAP	PΛ	
EPA 6010         Chromium         NELAP         PA         5/31/2005           EPA 6010         Colpalt         NELAP         PA         5/31/2005           EPA 6010         Copper         NELAP         PA         5/31/2005           EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Liftium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Mangenese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenum         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Sclenium         NELAP         PA         5/31/2005           EP	EPA 6010		Calcium	NELAP	PΛ	
EPA 6010         Cobalt         NELAP         PA         \$5/31/2005           EPA 6010         Copper         NELAP         PA         \$5/31/2005           EPA 6010         Iron         NELAP         PA         \$5/31/2005           EPA 6010         Lead         NELAP         PA         \$5/31/2005           EPA 6010         Lithium         NELAP         PA         \$5/31/2005           EPA 6010         Magnesium         NELAP         PA         \$5/31/2005           EPA 6010         Mangenese         NELAP         PA         \$5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         \$1/19/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         \$1/19/2011           EPA 6010         Molybdenun         NELAP         PA         \$5/31/2005           EPA 6010         Nickel         NELAP         PA         \$5/31/2005           EPA 6010         Potassium         NELAP         PA         \$5/31/2005           EPA 6010         Solimin         NELAP         PA         \$5/31/2005           EPA 6010         Sodium         NELAP         PA         \$5/31/2005	EPA 6010		Chromium	NELAP	PA	
EPA 6010         Copper         NELAP         PA         \$/31/2005           EPA 6010         Iron         NELAP         PA         \$/31/2005           EPA 6010         Lead         NELAP         PA         \$/31/2005           EPA 6010         Lithium         NELAP         PA         \$/31/2005           EPA 6010         Magnesium         NELAP         PA         \$/31/2005           EPA 6010         Mangenese         NELAP         PA         \$/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         \$/31/2005           EPA 6010         C         Metals by ICP/AES         NELAP         PA         \$/31/2005           EPA 6010         Molybdenun         NELAP         PA         \$/31/2005           EPA 6010         Nickel         NELAP         PA         \$/31/2005           EPA 6010         Potassium         NELAP         PA         \$/31/2005           EPA 6010         Sclenium         NELAP         PA         \$/31/2005           EPA 6010         Sclenium         NELAP         PA         \$/31/2005           EPA 6010         Sclenium         NELAP         PA         \$/31/2005           E	EPA 6010			NELAP	PA	
EPA 6010         Iron         NELAP         PA         5/31/2005           EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Mangenese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenun         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Solonium         NELAP         PA         5/31/2005           EPA 6010         Solium         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6	EPA 6010		Copper	NELAP	PA	
EPA 6010         Lead         NELAP         PA         5/31/2005           EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Manguese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenum         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Scienium         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Solionium         NELAP         PA         5/31/2005           E	EPA 6010			NELAP	PA	
EPA 6010         Lithium         NELAP         PA         5/31/2005           EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Mangunese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenun         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Solonium         NELAP         PA         5/31/2005           EPA 6010         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Silver         NELAP         PA         5/31/2005           E			Lead			
EPA 6010         Magnesium         NELAP         PA         5/31/2005           EPA 6010         Manganese         NELAP         PA         5/31/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenun         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Sclonium         NELAP         PA         5/31/2005           EPA 6010         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005	EPA 6010		Lithium	NELAP	PΛ	
EPA 6010         Manganese         NELAP         PA         5731/2005           EPA 6010         B         Metals by ICP/AES         NELAP         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenun         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Solonium         NELAP         PA         5/31/2005           EPA 6010         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005	EPA 6010		Magnesium	NELAP		
EPA 6010         B         Metals by ICP/AES         NELAF         PA         1/12/2011           EPA 6010         C         Metals by ICP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenun         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Solonium         NELAP         PA         5/31/2005           EPA 6010         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005						
EPA 6010         C         Metals by FCP/AES         NELAP         PA         1/19/2011           EPA 6010         Molybdenum         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Solminn         NELAP         PA         5/31/2005           EPA 6010         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Strontiom         NELAP         PA         5/31/2005           EPA 6010         Strontiom         NELAP         PA         5/31/2005           EPA 6010         Thallium         NELAP         PA         5/31/2005	EPA 6010	В	Metals by ICP/AES	NELAP	PA	
EPA 6010         Molybdenum         NELAP         PA         5/31/2005           EPA 6010         Nickel         NELAP         PA         5/31/2005           EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Solonium         NELAP         PA         5/31/2005           EPA 6010         Solium         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Strontium         NELAP         PA         5/31/2005           EPA 6010         Thallium         NELAP         PA         5/31/2005	EPA 6010	C	Metals by ICP/AES	NELAP	PA	
EPA 6010         Nickel         NELAP         PA         \$/31/2005           EPA 6010         Potassium         NELAP         PA         \$/31/2005           EPA 6010         Solonium         NELAP         PA         \$/31/2005           EPA 6019         Silver         NELAP         PA         \$/31/2005           EPA 6010         Sodium         NELAP         PA         \$/31/2005           EPA 6010         Sirontium         NELAP         PA         \$/31/2005           EPA 6010         Tualium         NELAP         PA         \$/31/2005	EPA 6010		Molybdenum	NELAP	PA	
EPA 6010         Potassium         NELAP         PA         5/31/2005           EPA 6010         Solonium         NELAP         PA         5/31/2005           EPA 6019         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Silventium         NELAP         PA         5/31/2005           EPA 6010         Thallium         NELAP         PA         5/31/2005	EPA 6010			NELAP	PA	
EPA 6010         Sclonium         NELAP         PA         5/31/2005           EPA 6019         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Sirontiom         NELAP         PA         5/31/2005           EPA 6010         Tballium         NELAP         PA         5/31/2005	EPA 6010		Potassium	NELAP	PA	
EPA 6019         Silver         NELAP         PA         5/31/2005           EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Strontiom         NELAP         PA         5/31/2005           EPA 6010         Tballium         NELAP         PA         5/31/2005	EPA 6010		Scienium		PΛ	
EPA 6010         Sodium         NELAP         PA         5/31/2005           EPA 6010         Strontium         NELAP         PA         5/31/2005           EPA 6010         Tballium         NELAP         PA         5/31/2005			Silver	•		
EPA 6010         Strention         NELAP         PA         5/31/2005           EPA 6010         Thellium         NELAP         PA         5/31/2005						
EPA 6010 Thoflium NELAP PA 5/31/2005			Strontium			

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

BPA Lab Code: PA00018

AND STREET

TNI Codo:

(215) 355-3900

PADWIS ID: 09131

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 6010		Titanium	NELAP	PA	5/31/2005
EPA 6010		Vamdium	NBLAP	PA	5/31/2005
EPA 6010		Zinc	NELAP	PΛ	5/31/2005
EPA 6010		Zirconium	NELAP	PΑ	12/3/2007
EPA 7.3.3.2		Reactive synnide	NELAP	PA	5/31/2005
EPA 7.3.4.2		Reactive suffide	NELAP	PA	5/31/2005
EPA 7196	A.	Chromhan VI	NELAP	PΑ	5/31/2005
EPA 7470	Á	Mercury	NELAP	PΑ	5/31/2005
EPA 7471		Mercury	NELAP	PΛ	1/22/2010
EPA 7471	В	Merenry	NELAP	ľΑ	5/12/2011
EPA 7471	A	Mercury	NELAP	PΛ	5/31/2005
EPA 8011		1,2,3-Trichloropropanc (1,2,3-TCP)	NELAP	PA	1/26/2006
EPA 8011		1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	PA	5/31/2005
EPA 8011		1,2-Dibromocthane (EDB, Ethylene dibromide)	NELAP	PA	5/31/2005
EPA 8015		1,4-Dioxane (1,4-Diethyleneaxide)	NELAP	PA	1/26/2006
EPA 8015		Diesel-range organics (DRO)	NELAP	PA	5/31/2005
EPA 8015		Ethanol	NELAP	PA	1/26/2006
EPA 8015		Ethylens glycol	NELAP	PA	1/26/2006
EPA 8015		Gasoline-range organics (GRO)	NELAP	PA	5/31/2005
EPA 8015		Isobutyl alcohol (2-Methyl-1-propanol)	NELAP	PÁ	1/26/2006
EPA 8015		Methanol	NELAP	PÅ	1/26/2006
EPA 8015	B	Nonhalogenated organics by GC/FID	NELAP	PA	5/31/2005
EPA 8015		Total petroleum hydrocarbons (TPH)	NELAP	PA	5/31/2005
BPA 8015		n-Butyl alcohol (n-Butanol, 1-Butanol)	NELAP	PA.	1/26/2006
EPA 8015		n-Propanol (1-Propanol)	NELAP	PA	1/26/2006
EPA 8081		2.4'-DDD	NELAP	PΛ	6/17/2009
EPA 8081		4,4'-DDD	NELAP	PA	5/31/2005
EPA 8081		4,4'-DDE	NELAP	PA	5/31/2005
EPA 8081		4,4'-DDT	NELAP	PA	5/31/2005
EPA 8081		Aldrin (HHDN)	NELAP	PA	5/31/2005
EPA 8081		Chlordage (tech.)	NELAP	PA	5/31/2005
EPA 8081		Dieldrin	NELAP	PA	5/31/2005
EPA 8081		Endosulfan t	NELAP	PΛ	5/31/2005
EPA 8081		Endosulfan II	NELAP	ГА	5/31/2005
EPA 8081		Endosulfan sulfate	NELAP	PA	5/31/2005
EPA 8081		Endrin	NELAP	PΛ	5/31/2005
EPA 8081		Endrin aldehydo	NELAP	PΑ	5/31/2005
EPA 8081		Endrin ketone	NELAP	PA	5/31/2005
EPA 8081		Heptachlar	NELAP	PΛ	5/31/2005
EPA 8081		Heptachlor epoxide	NELAP	ra	5/31/2005
EPA 8081		Methoxychlor	NELAP	PÅ	5/31/2005
EPA 8081		Mirex	NELAP	PΛ	5/31/2005
EPA 8081		Toxaphene (Chlorinated campliane)	NELAP	PA	5/31/2005
EPA 8081		alpha-BHC (alpha-Hexachlorocyclohexane)	NELAP	PA	5/31/2005



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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of occredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8081		alpha-Chlordane	NELAP	PA	5/31/2005
EPA 8031		heta-BHC (heta-Hexachlorocyclohexane)	NELAP	PA	5/31/2005
EPA 8081		delta-BHC (delta-Hexachlorocyclohexane)	NELAP	PΛ	5/31/2005
EPA 8081		gamma-BHC (Lindane, gamma- Hexachlorocyclohexane)	NELAP	PA	5/31/2005
EPA 8081		gamma-Chlordane	NELAP	PΛ	5/31/2005
EPA 8082		Aroclar-1016 (PCB-1016)	NELAP	PA	5/31/2005
EPA 8082		Aroclor-1221 (PCB-1221)	NBLAP	PA	5/31/2005
EPA 8082		Aroclor-1232 (PCB-1232)	NELAP	PA	5/31/2005
EPA 8082		Amelor-1242 (PCB-1242)	NELAP	PA	5/31/2005
EPA 8082		Aroclor-1248 (PCB-1248)	NELAP	PA	5/31/2005
EPA 8082		Arocior-1254 (PCB-1254)	NELAP	PA	5/31/2005
EPA 80\$2		Aroclor-1260 (PCB-1260)	NELAP	PA	5/31/2005
EPA 6082		Aroclor-1262 (PCB-1262)	NELAP	PΛ	5/12/2011
EPA 8082		Araclor-1268 (PCB-1268)	NELAP	PA	5/12/2011
EPA 8151	A	2,4,5-T	NELAP	₽A	10/2/2009
EPA 81St	٨	2,4,5-TP (Silvex)	NELAP	PA	10/2/2009
EPA 8151	Ä	2,4-D	NELAP	PA	10/2/2009
EPA 8151	Α	2,4-DB (Butoxun)	NELAP	PA	10/2/2009
EPA 8151	A	Dalapon (2,2-Dichloropropionic scid)	NELAP	PA	10/2/2009
EPA 8151	٨	Dicamba	NELAP	PA	10/2/2009
EPA 8151	Ä	Dichloroprop (Dichlorprop)	NELAP	PA	10/2/2009
EPA 8151	Ä	Dinosch (2-sec-Butyl-4,6-dinitrophenol, DNBP)	NELAP	PA	2/16/2011
EPA 8151		Pentachlarophenol (PCP)	NELAP	PA	1/24/2013
EPA 8260		1,1,1,2 Teirachiprocthane	NELAP	PΛ	5/31/2005
BPA 8260		1,1,1-Trichtoroethane	NELAP	PA	5/31/2005
EPA 8260		1,1,2,2-Tefrachlorgethane	NELAP	PA	5/31/2005
EPA 8260		1,1,2-Trichtoro-1,2,2-trifluoroethane (Freon 113)	NELAP	PA.	11/3/2006
EPA 8260		1,1,2-Trichloroethanc	NELAP	PA	5/31/2005
8PA 8260		I,I-Dichlorgethane	NELAP	PA	5/31/2005
EPA 8260		1,1-Dichlerouthene (1,1-Dichleraethylene)	NBLAP	PA	5/31/2005
EPA 8260		1,1-Dichloropropene	NELAP	PΛ	5/31/2005
EPA 8260		1,2,3-Trichlorobenzene	neláp	PA	5/31/2005
EPA 8260		1,2,3-Trichleropropone (1,2,3-TCP)	NELAP	PA	5/31/2005
EPA 8260		1,2,4-Trichlorobenzene	nelap	PÅ	5/31/2005
EPA 8260		1,2,4-Trimethylbenzene	NELAP	PA	5/31/2005
EPA 8260		1,2-Dibromo-3-chloropropane (DBCP, Dibromochloropropane)	NELAP	PA	5/31/2005
EPA 8260		1,2-Dibromoethano (EDB, Ethylene dibromido)	NELAP	PA	5/31/2005
EPA 8260		1,2-Dichlerobenzene (e-Dichlerobenzene)	NELAP	PA	5/31/2005
EPA 8260		1,2-Dichlorgethand	<b>NELAI</b>	PA	5/31/2005
EPA 8260		1,2-Dichloropropane	NELAP	PA	5/31/2005
EPA 8260		1,3,5-Trimethylbenzene	NGLAP	PΛ	5/31/2005



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Issue Onie: 03/26/2011





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DRP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

#### Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8260		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	PA	5/31/2005
EPA 8260		1,3-Dichloropropane	NELAP	PA.	5/31/2005
EFA 8260		1,4-Dichtorobenzene (p-Dichtorobenzene)	NELAP	PA	S/31/200S
EPA 8260		1,4-Dioxane (1,4-Diethylencoxide)	nelap	PA	11/3/2006
EPA 8260		1-Chloro-2-methylpropane	NELAP	PΛ	12/29/2006
EPA 8260		I-Chlorobutane	NELAP	PA	11/3/2006
EPA 8260		2,2-Dichloropropane	NELAP	PA	5/31/2005
EPA 8260		2-Bulanone (Methyl ethyl ketone, MEK)	NELAP	PΛ	5/31/2005
EPA 8260		2-Chloroethyl vinyl ether	NELAP	PΑ	5/31/2005
EPA 8260		2-Chlorotolucno	NELAP	PA	5/31/2005
EPA 8260		2-Hexanons	NECAP	PA	5/31/2005
EPA 8260		4-Chlorotoluene	NELAP	PA	5/31/2005
EPA 8260		4-Methyl-2-pentanone (MIBK)	NELAP	PΑ	5/31/2005
EPA 8260		Acetone	NELAP	PA	5/31/2005
EPA 8260		Acrolein (Propenal)	NELAP	PA	5/31/2005
EPA 8260		Acrylonitrile	NELAP	PA	5/31/2005
EPA 8260		Allyl chloride (3-Chlampropene)	NELAP	PA	11/3/2006
EPA 8260		Benzene	NELAP	PA	5/31/2005
EPA 8260		Bromobenzene	NELAP	PA	5/31/2005
EPA 8260		Bromochloromethano	NELAP	Αŋ	5/31/2005
EPA 8260		Bromodichloromethane	NELAP	PA	S/31/2005
EPA 8260		Bromoform	NELAP	PA	5/31/2005
EPA 8260		Carbon disulfide	NELAP	PA	5/31/2005
EPA 8260		Carbon tetrachloride	NELAP	PA	5/31/2005
EPA 8260		Chlorobenzene	NELAP	PA	5/31/2005
EPA 8260		Chlorodiffuoromethane (Freon 22)	NELAP	PA	12/29/2006
EPA 8260		Chloroethane	NELAP	PΑ	\$/31/2005
EPA 9260		Chloroform	NELAP	PA	\$/31/2005
El'A 8260		Chloroprene (2-Chloro-1,3-butadiene)	NELAP	PΛ	11/3/2006
EPA 8260		Cyclohexano	NELAP	PA	12/21/2006
EPA 8260		Dibromechloromethane	NBLAP	PA	5/31/2005
EPA 8260		Dibramamethans	NELAP	PΛ	5/31/2005
EPA 8260		Dichlorodifluoromethans (Freen 12)	NELAP	PA	5/31/2005
EPA 8260		Disopropyl other (DIPE)	NELAP	PA	11/3/2006
EPA 8260		Cihanol	NELAP	PA	12/21/2006
EPA 8260		Ethylbenzene	NELAP	PA	5/31/2005
EPA 8260		Hexachlorobutadiene (1,3- Hexachlorobutadiene)	NELAP	PA	5/31/2005
EPA 8260		Indomethane (Methyl indide)	NELAP	PΑ	5/31/2005
EPA 8260		isopropylbenzone (Cumene)	NELAP	PΑ	5/31/2005
EPA 8260		Methyl acctate	NELÁP	PΛ	1/22/2010
EPA 8260		Methyl bromide (Bromomethane)	NELAP	Pለ	5/31/2005
PPA 8260		Methyl chloride (Chloromethane)	Nelap	PA	5/31/2005
EPA 8260		Methyl tert-butyl ether (MTBE)	NELAP	PA	5/31/2005
EPA 8260		Methylcyclohexane	NELAP	የለ	1/19/2011
EPA 8260		Methylene chloride (Dichloromethane)	NELAP	PA	5/31/2005

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Solid and Chemical Materials

Method	Revision	Analyto	Accreditation Type	Primary	Effective Date
EPA 8260		Naphthalene	NELAP	ΓA	
EPA 8260		Styrene	NELAP	PÅ	5/31/2005
EPA 8260		Tetrachloroethene (PCB, Perchloroethylene)	NELAP	PA	5/31/2005
EPA 8260		Tetrohydroforan (THF)	NELAP	PA	5/31/200S
EPA 8260		Toluene	NELAP	PA	11/3/2006
EPA 8260		Trichloroethene (TCB, Trichloroethylene)	NELAP	PA	5/31/2005
EPA \$26D		Trichlorofluoromethana (Freen 11)	NELAP	PA	\$/31/2005
EPA 8260	С	VOCs by GC/MS	NELAP	PA PA	\$/31/2005
El'A 8260	В	VOCs by GC/MS	NELAP		1/23/2009
EPA 8260	_	Vinyl acetate	NBLAP	PA D	10/7/2010
EPA 8260		Vinyl chloride (Chloroethene)		PA	5/31/2005
EPA 8260		Xylenes, total	NELAP	PA	5/31/2005
EPA 8260		cis-1,2-Dichlaraethena	NELAP	PA	5/31/2005
EPA 8260		cis-1,3-Dichloropropene	NELAP	PA	5/31/2005
EPA 8260			NELAP	<b>የ</b> ለ	5/31/2005
EPA 8260		n-Butylbenzone	NELAP	PΛ	5/31/2005
EPA 8260		n-Propylhenzene	NELAP	PA	5/31/2005
		o-Xylene	nelap	PA	7/12/2006
EPA 8260		p-Isopropyliolucne (4-Isopropyliolucne)	NELAP	PΛ	5/31/2005
EPA 8260		sec-Butythenzens	NELAP	PΑ	5/31/2005
EPA 8260		tert-Amyl ethyl ether (TAEE)	NECAP	PA	12/21/2006
EPA 8260		tert Amyl methyl ether (TAME)	NELAP	PA	11/3/2006
EPA 8260		lert-Butyl alcohol (2-Methyl-2-propanol)	NELAP	PA	5/31/2005
EPA 8260		tert-Butyl ethyl ether	NECAP	PA	11/3/2006
EPA 8260		tert-Butylbenzong	NELAP	RΑ	5/31/2005
EPA 8260		truns-1,2-Dichtoroethene	NELAP	PA	5/31/2005 5/31/2005
EPA 8260		trans-1,3-Dichloropropune	NELAP	PΑ	,
EPA 8260		trans-1,4-Dichloro-2-butene	NBLAP	PA	5/31/2005
EPA 8270		1, l'-Biphenyl (Biphenyl, Lemonane)	NELAP	PA	5/31/2005
EPA 8270		1,2,3,4-Tetrachlorobenzene	NELAP	PA	6/17/2009
EPA 8270		1,2,4,5-Tetrachlorobenzene	NELAP	PA	11/3/2006
EPA 8270		1,2,4-Trichlarabenzene	NBLAP	PA	5/31/200s
EPA 8270		1,2-Dichlorobenzene (o-Dichlorobenzene)	NELAP	PA	5/31/2005
EPA 8270		1,2-Diphenylhydrazine	NELAP		5/31/2005
6PA 8270		1,3-Dichlorobenzene (m-Dichlorobenzene)	NELAP	PÅ	5/31/2005
EPA 8270		1,4-Dichlorobenzene (p-Dichlorobenzene)	NELAP	PA BA	5/31/2005
EPA 8270		2,3,4,6-Tetrachlorophenol		PA	5/31/2005
EPA \$270		2,3-Dichloroaniline	NELAP	PΛ	5/12/2011
EPA 8270		2,4,5-Trichlorophenal	NELAP	PΛ	1/19/2011
EPA 8270		2,4,5-Trichlorotoluene	NELAP	PA	5/31/2005
EPA 8270		2,4,6-Trichlorophenol	NELAP	PA	1/19/2011
EPA 8270		2,4-Dichlorophenol	NELAP	PA	5/31/2005
EPA 8270		2,4-Dimethylphenol	NELAP	PA	5/31/2005
EPA 8270		z,4-Dinitrophenol	NELAP	PA	5/31/2005
EPA 8270			NELAP	PA	5/31/2005
EPA 8270		2,4-Dinitrotoluene (2,4-DNT)	NELAP	PA	5/31/2005
13110010	•	2,6-Dichlorophenol	NELAP	PA	5/31/2005



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Isauc Date: 03/25/2013





Attached to Certificate of Accreditation 011-002 expiration data January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DRP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270		2,6-Dinitrotoluene (2,6-DNT)	NELAP	PA	5/31/2005
EPA 8270		2-Chloronaphthalene	NELAP	PA	5/31/2005
EPA 8270		2-Chlorophenol	NELAP	PA	5/31/2005
EPA 8270		2-Methyl-4,6-dinitrophenol (4,6-Dinitro-2- methylphenol)	NELAP	PA	5/31/2005
EPA 8270		2-Methylnaphthalene	NELAP	PΑ	5/31/2005
EPA 8270		2-Methylphonol (o-Cresol)	Nelap	PΑ	5/31/2005
EPA 8270		2-Nitrosniline	NELAP	PA	5/31/2005
EPA 8270		2-Nitrophenal	NELAP	PΑ	5/31/2005
EPA 8270		3,3'-Dichlorobenzidine	NELAP	PΛ	5/31/2005
EPA 8270		3-Methylphenoi (m-Cresol)	NELAP	PA	5/31/2005
EPA 8270		3-Nitroaniline	NELAP	PA.	5/31/2005
EPA 8270		4-Bromophenyl phenyl ether	NELAP	PA	5/31/2005
EPA 8270		4-Chloro-3-methylphenol	NELAP	PA	5/31/2005
EPA 8270		4-Chloroaniline	NELAP	PA	5/31/2005
EPA B270		4-Chlorophenol	NELAP	PA	1/19/2011
EPA 8270		4-Chlorophenyl phenyl ether	NELAP	PA	5/31/2005
EPA 8270		4-Methylphenol (p-Cresol)	NELAP	PΛ	5/31/2005
EPA 8270		4-Nitroaniline	NELAP	PA	5/31/2005
EPA 8270		4-Nitrophenol	NELAP	PA	5/31/2005
EPA 8270		Acennphthene	NELAP	PA	5/31/2005
EFA 8270		Acenaphthylene	NELAP	PA	5/31/2005
EPA 8270		Acetophenone	NELAP	PΑ	6/17/2009
EPA 8270		Aniline	NELAP	PA	5/3 1/2005
EPA 8270		Anthraceno	NELAP	PΛ	5/31/2005
EPA 8270		Atrazino	NELAP	PA	6/17/2009
EPA 8270		Benzal chloride	NELAP	PA	1/26/2006
EPA 8270		Benzaldehyde	NELAP	PA	1/19/2011
EPA 8270		Benzidine	NELAr	PA	5/31/2005
EPA 8270		Benzo[a]anthracene	NELAP	PA.	5/31/2005 5/31/2005
EPA 8270		Bcnzu[a]pyrene	NELAP	PA	5/31/2005
EPA 8270		Benzo[b]fluoranthene	NELAP	PA	5/31/2005
EPA 8270		Benzo[ghi]perylene	NELAP	PΑ	5/31/2005
EPA 8270		Benzo[k]fluoranthene	NELAP	PA	5/31/2005
EPA 8270		Benzoie neid	NELAP	PA.	5/31/2005 5/31/2005
EPA 8270		Benzyl alcohol	NELAP	PA	5/31/2005
EPA 8270		Benzyl butyl phthalale (Butyl benzyl phthalate)	NELAP	PΛ	5/31/2005
EPA 8270		Benzyl chloride	NELAP	PΑ	1/26/2006
EPA 8270		Caprolactain	NELAP	PΛ	6/17/2009
EPA 8270		Carbazole	NELAP	PA	5/31/2005
EPA 8270		Chrysene (Benzo[a]phenanthrene)	NELAP	PA	5/31/2005
EPA 8270		Decomethylcyclopentasiloxana	NELAP	PA	1/19/2011
EPA 8270		Di-n-butyl plathalate	NELAP	PA	5/31/2005
EPA 8270		Di-n-octyl phthalate	NELAP	PA	5/31/2005
EPA 8270		Dibenzoja,hjanthracene	NELAP	PA	5/31/2005

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Issue Date: 03/26/2013





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

BPA Lab Code: PA00018

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
EPA 8270		Dibenzofuran	NELAP	ľA	
GPA 8270		Diethyl phthalate	NELAP	PΛ	5/31/2005
EPA 8270		Directly I phthalate	NELAP	PΛ	5/31/2005
ECA 8270		Diphenylamine	NELAP	PA.	5/31/2005
EPA 8270		Fluoranthene	NELAP	PA PA	5/31/2005
EPA 8270		Phyorene	NELAP	PΛ	5/31/2005
EPA 8270		Hexachlorobenzene	NELAP	PÁ PÁ	\$/31/2005
EPA 8270		Hexachlorobutadiene (1,3- Hexachlorobutadiene)	NELAP	PA PA	5/31/2005 5/31/2005
EPA 8270		Hexachlorocyclopeniadiene	NELAP	PA	
EPA 8270		Hexachloroethane	NELAP	PA.	5/31/2005
EPA 8270		hideno(1,2,3-cd)pyrene	NELAP	PA PA	5/31/2005
EPA 8270		Isophorona	NELAP	PA	5/31/2005
BPA 8270		Methyl parathion (Parathion, sactlyl)	NELAP		5/31/2005
EPA 8270		N-Nitrosodi-n-butylandae	NELAP	PA.	5/12/2011
EPA 8270		N-Nitrosodi-n-propylamine	NELAP	PA	<i>\$/</i> 31 <i>/</i> 2005
EPA 8270		N-Nitrosodicilylamine	NELAP	PA	\$/31/2005
EPA 8270		N-Nitrosodimethylamine		PΑ	\$/31/2005
EPA 8270		N-Nitrosodiphenylamine	NELAP	PA	5/31/2005
EPÁ 8270		N-Nitrosopyrrolidine	NELAP	PΛ	5/31/2005
El'A 8270		Naphiholene	NELAP	PA	5/31/2005
EPA 8270		Nitrobenzene	NELAP	PA	5/31/2005
EPA 8270		Octamethyleyclopentasitoxane	NELAP	PΛ	5/31/2005
EPA 8270			NELAP	PA	1/19/2011
EPA \$270		Parathion, ethyl (Ethyl parathion, Parathion)	NELAP	PA	1/19/2011
EPA 8270		Pentachiorobejizene	NELAP	PA	5/31/2005
EPA 8270		Pentachlorophenni (PCP)	nblap	PΑ	5/31/2005
EPA 8270		Phenonthrene	nelap	PA	5/31/2005
EPA 8270		Plienol	NELAP	PA	5/31/2005
EPA 8270		Pyrene	NELAP	PA	5/31/2005
EPA 8270		Pyridine	NELAP	ΡÁ	5/31/2005
EPA 8270	**	Resorcinol (1,3-Dihydroxybenzene)	NELAP	PA	1/19/2011
EPA 8270	D C	SOCs by GC/MS	NELAP	PA	10/5/2010
EPA 8270	C	SOCs by GC/MS	NELAP	PΑ	10/7/2010
EPA 8270		alpha-Terpineol	NELAP	PA	1/26/2006
BPA 8270		bis(2-Chlorocthoxy)methone	NELAP	PA	5/31/2005
EPA 8270		bis(2-Chlowethyl) other	NELAP	PA	5/31/2005
EPA 8270		bis(2-Chloroisopropyl) ether	NELAP	PA	5/31/2005
EFA 8270		bis(2-Ethylhexyl) phthalate (DEHP)	NELAP	PA	5/31/2005
EPA 8270		n-Decane	NELAP	PA	1/19/2011
EPA 8270		n-Ocludeenin	NULAP	PA	1/19/2011
		o-Toluidine (2-Toluidine, 2-Methylaniline)	NELAP	PÀ	1/19/2011
EPA 8270 SIM		2-Methylmaphthalene	NELAP	PA	1/22/2010
EPA 8270 SIM EPA 8270 SIM		Acenaplithene	NELAP	PA	10/6/2008
		Accuaphthylene	NELAP	PA	10/6/2008
EPA 8270 SIM		Anthracene	NELAP	PA	10/6/2008
EPA <b>827</b> 0 SIM		Benzo[A]anthracene	NELAP	PA	10/6/2008

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The Pennsylvania Deportment of Environmental Protection Leboratory Accreditation Program is a NRLAP recognized Accreditation Body. Customers are urged to verify the laboratory's current accreditation standing.

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Issue Onto: 03/26/2019





Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

EPA Lab Code: PA00018

TNI Code:

(215) 355-3900

PADWIS ID: 09131

Matrix: Solid and Chemical Materials

Method	Revision	Analyto	Accreditation Type	Primary	Effective Date
EPA \$270 SIM		Benzo[a]pyrone	NELAC	PA	10/6/2008
EPA 8270 SIM		Benzo[b]fluviunthene	NELAP	PA	10/6/2008
EPA 8270 SIM		Benzo(ghi)perylene	NELAP	PA	10/6/2008
EPA 8270 SIM		Benzo[k]finoranthene	NELAP	PA	10/6/2008
EPA 8270 SIM		Chrysene (Benzofa)phenanthrene)	NELAP	PΛ	10/6/2008
EPA 8270 SIM		Dibenzoln,hlanthracene	NELAP	PA	5/5/2009
EPA 8270 SIM		Flooranthene	NELAP	ľA	10/6/2008
EPA 8270 SIM		Fluorene	NELAP	PA.	10/6/2008
EPA 8270 SIM		Flexachlarabenzene	NELAP	PA	1/22/2010
EPA 8270 SIM		Hexachtorobutadiene (1,3- Hexachtorobutadiene)	NELAP	PA	1/22/2010
EPA 8270 SIM		Indeno(1,2,3-ed)pyrene	NELAP	PA	10/6/2008
EPA 8270 SIM		N-Nitrosodimethylamine	NELAP	PA	1/22/2010
EPA 8270 SIM		Naphthalene	NELAP	PΛ	10/6/2008
EPA 8270 SIM		Pentachlorophenal (PCP)	NELAP	PA	1/22/2010
EPA 8270 SIM		Phenanthrene	NELAP	PΛ	10/6/2008
EPA 8270 SIM		Pyrene	NBLAP	PA	10/6/2008
EPA 9010		Amenable cyanide	NELAP	PA	5/31/2005
EPA 9010		Total eyanida	NELAP	PΛ	5/31/2005
EPA 9014		Cyanide	NELAP	PA	5/31/2005
EPA 9020		Total organic holides (TOX)	NELAP	PA	6/20/2007
EPA 9023		Extractable organic halides (EOX)	NELAP	PA	6/20/2007
EPA 9034		Sulfide	NELAP	PΛ	\$/31/2005
EPA 9040		pH	NELAP	PA	5/31/2005
EPA 9045	С	pH	NELAP	PA	5/31/2005
EPA 9050		Conductivity	NELAP	PA	6/20/2007
EPA 9056	٨	Bramide	NELAT	PA	5/31/2005
EPA 9056	A	Chlorida	NELAP	PA	5/31/2005
EPA 9056	A	Fluoride	NELAP	PA	5/31/2005
EPA 9056	A	Nitrate as N	NELAP	PA	5/31/2005
EPA 9056	A	Nitrite as N	NELAP	PA	5/31/2005
EPA 9056	Ä	Sulfate	NELAP	PA	5/31/2005
ErA 9056	Λ	Total nitrate-nitrite	NELAP	PA	7/12/2006
EPA 9060		Total organic carbon (TOC)	NELAP	PA	5/31/2005
EPA 9065		Total phenolics	NELAP	PΑ	5/31/2005
EPA 9071		Oil and grease	NELAP	PA	5/31/2005
EPA 9076		Chlorine	NELAP	PA	1/27/2012
EPA 9095	A	Paint lilter liquids test	NELAP	PA	5/31/2005
NJ-OQA-QAM-025, Rev 6	••	Petroleum organics	NELAP	PA	7/18/2007
SM 2540 G		Residue, total	NELAP	PA	6/12/2009
SM 2540 G		Residue, volatile	NELAP	PA	6/12/2009
SM 2540 G		Total, fixed, and volatile residue	NELAP	PA	6/12/2009
SM 2550 B		Temperature, deg. C	NELAP	PA	6/28/2009
SM 4500-NH3 C		Amugnia as N	NELAP	PA	5/12/2011
SM 4500-P E		Phosphorus, total	NELAP	PA	5/12/2011
		- tracking and some	MDD/II	i n	3/12/2011

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Attached to Certificate of Accreditation 011-002 expiration date January 31, 2014. This listing of accredited analytes should be used only when associated with a valid certificate of accreditation.

DEP Laboratory ID: 09-00131

BPA Lab Code: PAGGO18

TNI Code:

(215) 355-3900

**PADWIS ID: 09131** 

Matrix: Solid and Chemical Materials

Method	Revision	Analyte	Accreditation Type	Primary	Effective Date
SM 9260 D + EPA 625/R- 92/013 Appendix F		Salmonello (Enumeration)	NELAP	PA	5/31/2005
SOP (00131) QC0621	•	Multiple extraction procedure	NELAP	PΛ	9/30/2009

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Issus Dato: 03/26/2013